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ON THE COVER

As the weather warms up, there's nothing more fun than conducting a Fox Hunt and doing a little DFing for a "lost" transmitter. CAP members of the Winston-Salem Squadron conduct drills to locate Electronic Locator Transmitter (ELT) on a downed aircraft. Many of the CAPers are also Amateur Radio operators. Color slide provided by Holli Nelson, KB4AKM.

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

May, Jun., July, 1987
VOLUME 16, NO. 2
ORGANIZED IN 1971
"IN OUR 16th YEAR"

Editorial Comment

Traveling Tidbits from Around Here. . .

Just a Moment. . . please! What is happening here? I thought spring had sprung, yet the West Virginians greeted me with 21 inches of snow on April 5th. I'm beginning to get a little leary of traveling to West Virginia. In January, after the Fayetteville hamfest, Orin, WA4TBR and myself were chased home by a monsterous snow storm which was nipping at our tails as we sped down I-77 trying to get back to North Carolina. Now in April. . . mind you, only a week from time to start planting a garden, the West Virginians greeted me with snow, snow and more snow. Ron, N4MYG and myself were greeted by snow falling on snow already on the ground as we passed under the East River Mountain tunnel into West Virginia. When we got to Charleston for the Hamfest, it was d-e-e-p and still falling. In fact it was still snowing when we went back through the tunnel Sunday afternoon coming back to North Carolina. Now, if it snows when we go to Bluefield in May, there "ain't" nobody going to tell me that something isn't going on between the West Virginia folks and us flatlanders from North Carolina.

• • • •

We were most saddened to learn of the death of Dan Britt, owner of Britts Two-Way Amateur store in Georgia. Dan was a good friend to many folks and he will be sorely missed. He died April 6th after a two-week stay in the hospital.

• • • •

Those of you who have requested repeater frequencies lately have noticed the Directors are sending you those 4-page applications to fill out. Don't be upset. They are for your protection and that of CVRA-SERA. FCC is demanding full documentation and ARRL is recommending much information for the National Data-Base. SERA has learned from recent experiences that documentation is required with repeater interference problems if you ultimately have to call in the FCC. They want PROOF! So take the time to fill out the form with all the information you can provide, you'll only be helping yourself in the future, should the need arise. You never know.

• • • •

Thought I might clarify a question that is asked often. NO, you do NOT have to coordinate your repeater. It is NOT required by the FCC. HOWEVER, in cases of interference between two repeaters, the un-coordinated repeater bears primary responsibility for solving the problem. So without saying you must coordinate, the FCC is saying you'll be in a better position if you are coordinated if down the road, you are involved in an interference dispute. I might recommend all repeater owners sit down some night and take the time to thoroughly read the CVRA-SERA Coordination Policy which was printed in the February, 1986 Journal. This is one of the most important pieces of material this organization has ever published.

• • • •

Are you having as much fun with the Novices on 220 as we are? I couldn't get on that Friday night they started, but promptly got on Monday night to share the experience with our new friends. All I had the pleasure of communicating with seemed very happy to finally be able to talk, and you know, they did real good. They talked just like us "old timers" did, they gave their callsigns more than enough, and unless I knew better, I would have thought many were "Advanced" or "Extra" class operators. Isn't it funny how hams take to the bands and fit it so nicely?

• • • •

Full Membership (Repeaters) is going well for 1987, but Associate Membership (users) continues to dip. We have wracked our brains, but are unable to identify the reasons this is happening. If we continue losing members at the rate we are doing

Continued On Page 17

REPEATER JOURNAL

MAY, JUNE, JULY 1987

In This Issue

Traveling Tidbits from the Editor 1
Is Novice Enhancement Working? 3
Directors 2nd Annual Meeting Sked 3
FCC Grants Extensions for PRB-3 & 87-14 7
Cover Story-CAPers DFing 11
How To Find Your Lost Journal 12
Looking Back! The May 1977 Journal 15
SERA Repeater Index by Frequency 20-23
SERA Official Repeater Index (By-City, By-State) 23-30
Full Membership Continues to Grow 32
West Virginia Notes 33
Tennessee Tidbits 33
VEC Examination Schedules 37
Full Membership Application 40
A Computer Snafu 42
T-MARC Establishes Policy on 220 Mhz 43
Coming Events 48

Where To Find It Quick!

Repeater Journal Staff 1
Officers & Committees 2
District Directors ..... Bk. Cover
Repeater Index 20-30
Assoc. Mbrship Appl. 39
Advertiser's Index 48

About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication – Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. CVRA-SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within CVRA-SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join CVRA-SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a CVRA-SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calender year.

About the Repeater Journal. . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRASoutheastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

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About CVRA-SERA. . .

The CVRA-Southeastern Repeater Association is one of the largest Non-Profit repeater councils in the U.S. In our 16th year of operation, CVRA-SERA territory covers over 1,000 repeaters in member States of NC, SC, VA, WVA, TN, EKY, and GA. Our goal and promise is to continue providing a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio

SERA Board Schedules Second 1987 Meeting

The CVRA-SERA Board of Directors at their January working meeting at Knoxville voted to change the 2nd annual meeting time. A committee was named to select a new date, time and place for the forthcoming meeting.

Presently, August 23rd has been chosen for the meeting date, but the committee has been unable to decide where would be best for such a meeting.

Previously the 2nd meetings were always held on the Saturday night of the Shelby Hamfest in Shelby, N.C. on Labor Day weekend. Many members of the board expressed a desire to move the date since several members were involved with the Hamfest, or fleamarket, and were exhausted after working from early morning till dark, then rushing to a meeting which went to midnight sometimes.

The past two January meetings have been held in Knoxville, Tn. and it is recommended by at least one member of the committee to move to another state for the meeting.

The basic issue, is trying to find a location which is central enough that it can be reached by air, or automobile without any hassle. The long and extreme distances between the Westernmost Director, in Gallatin, Tennessee and the Easternmost Director, in Virginia Beach, Virginia, makes it impossible to select a location where everyone will have only a short trip to make. Since we reach from Georgia in the South, and Virginia and West Virginia in the North, there is no location totally convenient.

At present the Regional Airport area, between Greensboro and Winston-Salem, N.C. is being recommended. This area has an airport, numerous motels and easy access from interstate highways.

T-MARC Establishes Temporary Policy For New 220 MHz Repeaters

As you are probably aware, the F.C.C. recently issued a Notice of Proposed Rule Making In General Docket 87-14 which proposes to take the 220-222 MHz portion of the Amateur 220-225 MHz band from the Amateur Radio Service and re-allocate it to the Land Mobile Service, for commercial ACSB use.

IF this proposal is adopted, and the remaining Amateur band consists of only 222-225 MHz, it would appear that some amendment of the currently accepted 220 MHz "band plan" may have to be adopted. Even if the Commission does not adopt the proposal, with the implementation of the new privileges which Novice class licenses have as a result of "Novice Enhancement", there may have to be some revisions to the band plan to accommodate Novice SSB and packet activity in their 222.10-223.91 band segment. (If you have any recommendations on this subject, please send them to T-MARC.)

As a result of this unfortunate state of disruption of the 220 MHz band, T-MARC has made the unpleasant decision of placing a temporary "hold" on coordination of new systems in this band. This includes new repeater, control and link frequencies. Applications for new 220 MHz repeater, control and link frequencies, or for changes of existing coordinated stations, will still be accepted by T-MARC and will be placed on a "waiting list" based upon the date of receipt by the T-MARC Frequency Coordinating Committee of a completed Application for Frequency Coordination and Technical Data Survey Form. Once a resolution to this dilemma is found, the applications will be processed in order of the date of receipt.

We regret having to take this action, but we feel that in the long run, it will benefit us all, in that new coordinations will (hopefully) be on a frequency which will not have to be changed in the future. We hope Amateurs in our area can appreciate and agree with our decision in this regard.

In the meantime, anyone who wishes to commence temporary repeater operation on the 220 MHz band may do so on the "repeater builders' channel" (RBC) - 223.00--in/228.60-out - on a shared, non-coordinated, suffrance basis. No repeaters will be formally coordinated on this frequency pair, and all stations must accept any interference from other co-channel repeaters. Perhaps the use of some form of coded access (CTCSS, Touch-Tone, Whistle-up, etc.) might be beneficial, so as to minimize co-channel problems. Anyone who does commence operation on the RBC, is requested to advise T-MARC in writing of the date the operation begins, and other technical details about the station, so we will be aware of what's happening.

T-MARC is doing our utmost to oppose the F.C.C.'s proposal, and we encourage all Amateurs to file their own comments with the Commission on this docket.

For additional information, contact the T-MARC Frequency Coordinating Committee at 1419 Larch Road, Severn, MD 21144.

New Promotional Flyer Introduced for CVRA-SERA

The Repeater Journal staff has worked up a promotional flyer for handout promoting Associate Membership in CVRA-SERA.

The piece, which is re-printed on page 44 in this issue of the Journal, attempts to depict the Repeater Journal as a very important supplement to every Amateur in the Southeast for his reading. It is not meant to knock or discourage subscriptions to the national magazines, but is intended to educate the Amateur in using his CVRA-SERA Associate Membership, and the Repeater Journal to keep him totally informed as to what's happening on a local and regional basis.

Any newsletter editors wishing to reproduce the page in their newsletter may duplicate the one from the Journal, or write the editor for a black and white copy for reproduction. Any clubs who use the flyer in their newsletter would be doing a great service to CVRA-SERA.

Any hamfest groups or club groups wishing copies of the flyer may request them in writing from the Repeater Journal Editor. Please indicate how many are required, and when they will be needed. Please allow 2 weeks for delivery.

Is Novice Enhancement Working?

— by Wayne C. Williams, K4MOB

We've posed the question to quite a few people over the past month. Dealers, repeater owners, operators all seem to agree, the Novices are getting on 10-meters and 220 mhz and operating.

Several dealers indicated that they had sold more 220 rigs since Novice Enhancement than they have the past two years.

Even the FCC acknowledges that things are looking up as far as numbers are concerned. According to FCC Gettysburg, Novice licenses are coming in at the rate of over 6,000 a month, compared to only 1,500 a month prior to Novice Enhancement.

Before the questions arise, yes, this will slow down the FCC in issuing call signs and station licenses. When things are going good, time generally runs from 4 to 6 weeks. As things get busier, the delay before licenses arrive could run at late as 13 to 15 weeks. So new Novices are going to have to be patient, because as the FCC gets more load, delay time will increase accordingly.

Most 220 repeater owners report moderate and some even report heavy usage of their machines. Two things are happening, the Novices are getting on, and more "old timers" are getting on to talk to them. This greatly expands the repeater usage.

We hope everyone with capability has gotten on in their area and welcomed the new Novices on 220. We need them to help get that band populated so we can justify its existence. We haven't been able to in the past to the extent we needed to.

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FCC Actions. . .

FCC Grants Extension For PRB-3 Comments

PRB-3, another blockbuster from the FCC this year, deals with the implementation of a system to allow some identity to issue preferred callsigns to Amateurs. The new comment deadline is July 31, with reply comments due on August 30.

"FCC favors the implementation of such a system if it can be accomplished with no additional cost or workload to the FCC. The purpose of this Public Notice is to solicit comments and proposals on this matter, so that a determination can be made as to whether to proceed with its implementation."

The FCC in the PRB-3 proposal said they suggest:

(1) The FCC would issue on 2x3 callsign for each NEW licensee, regardless of license class.

(2) This callsign would be from the NA-NZ block.

(3) FCC would then discontinue processing requests for any call sign changes, and freeze all presently assigned callsigns.

(4) All other callsigns would then be available to a special callsign coordinator, or SCSC, who would assign one or more supplemental callsigns at the request of the licensee. This supplemental callsign could be used in lieu of the FCC assigned callsign.

(5) A SCSC would be operated on a not-for-profit basis but would be allowed to recover administrative costs.

(6) The FCC would prefer having only one SCSC, since it would be more efficient in preventing the same callsign from being assigned to different stations and avoiding inconsistencies of assignment. Further, a single SCSC would minimize the number of points of contact between the SCSC and the FCC, thus holding the administrative burden upon the FCC in check.

The FCC said its selection criteria for an SCSC are:

(a) The ability to assign callsigns in an efficient and objective manner.

(b) The ability to provide an accurate on-line access data base of assigned special callsigns for Commission monitoring and compliance work.

(c) The ability to minimize FCC resources required in the establishment of the special callsign system and;

(d) The ability to minimize the cost to the licensee for administering the system.

If you wish to file comments to PRB-3, the deadline for filing is July 31.

FCC Grants Extension For Comments - 87-14

The FCC as hoped, granted a stay for the Amateur Community by extending the deadline for comments for the controversial Docket 87-14, concerning 220 Mhz.

The new deadline is May 21, with reply comments due by June 19. The docket which came on the heels of Novice Enhancement had originally a deadline of April 7.

As you know, Docket 87-14 proposes to take the bottom two megahertz of the Amateur 220 band for Land Mobile and Business interests. This would leave only 222-225 Mhz. available for Amateurs on 220. Below 222 is already well established with Packet, SSB, CW, control frequencies, Moonbounce and many other modes.

Moving all this into the upper 3 Mhz., which was setup mainly for FM and repeater operation, would severely handicap this Amateur Band which has the best capability for VHF aside from 2-meters.

The Commission in their Docket stated that the Amateur 220 band was underutilized, basing their comments on the 1986 edition of the ARRL Repeater Directory. Obviously the Directory does not list anything but repeater operation on the 220 Mhz. band in their Directory. In addition, the Directory is a year old.

The Commission themselves said that Novice Enhancement was designed to encourage much new blood into Amateur Radio. If they are right, 220 Mhz. should be well established in the Amateur community in a very short time, with an expected rush of Novice operators occupying the band.

Why didn't the Commission give the future of Amateur Radio some thought on 220 Mhz. They said that the future needs of Land Mobile interests necessitates they be granted a portion of 220 Mhz.

All Amateur operators should write their comments on this very important Docket. Let the Commission know that we absolutely object to them raping part of our VHF band, just to satisfy business interests. Be sure to send copies of your comments to the ARRL. It might not be a bad idea to write your Senator and Congressman a short letter, explaining briefly what the FCC wants to do, and why you object.

We need to work together and beat this thing. We must protect every kilohertz of our precious spectrum. Let's tell the FCC to give us 220 Mhz. once and for all, and leave it alone so we can occupy it and to the job we are supposed to do. *— Wayne C. Williams, K4MOB*

Can Novice Stations Act as Digipeaters?

— adapted from ARRL Letter

There has risen the question, can Novices act as digipeaters. It would seem that they cannot, since the FCC specifically prohibits Novices from acting as the control operator or station licensee of a repeater. But is a digipeater a repeater? The ARRL thinks not.

Granted, an AX.25 packet digipeater generally meets the repeater definitions of the FCC rules, but it also meets the more specific definition used in Part 97.80(b) which was added by the FCC in PR Docket 85-105.

In discussions with the FCC, the ARRL finds the FCC would rather take a wait-and-see attitude toward making a determination of appropriate service rules for packet. The FCC is anxious to accommodate packet technology within the rules, but not without a firm basis for rule making. In other words, specific prohibitions and rules changes will occur only because of demonstrated need.

So, in a practical sense, this means, that Novices need the ability to act as digipeaters, to fit well into packet operation in their area.

The answer then is, YES, Novice stations can act as digipeaters. If it turns out that problems arise from such operations, the FCC has not foreclosed the option of ruling that Novice stations cannot be digipeaters. Higher-class licensees should take the initiative in guiding Novices in proper packet operation, particularly with regard to third-party traffic restrictions and the need for watchdog-timer circuits when under automatic control.

Radio Reading Petition Denied by the FCC

The FCC has denied a petition for rulemaking, RM-5435, filed by the Association of Radio Reading Services (ARRS). This petition had requested 500 Khz. of the Amateur 220-225 Mhz. band to the radio reading services for the blind and print handicapped.

In its denial, the FCC commented that "FM" subcarriers would appear to be well-suited for radio reading services" and said that with the addition of new FM radio broadcast stations and the growth in alternative media, such as cable television, that there should be a growing number of outlets for the ARRS to use.

- ANNOUNCING THE ANNUAL -

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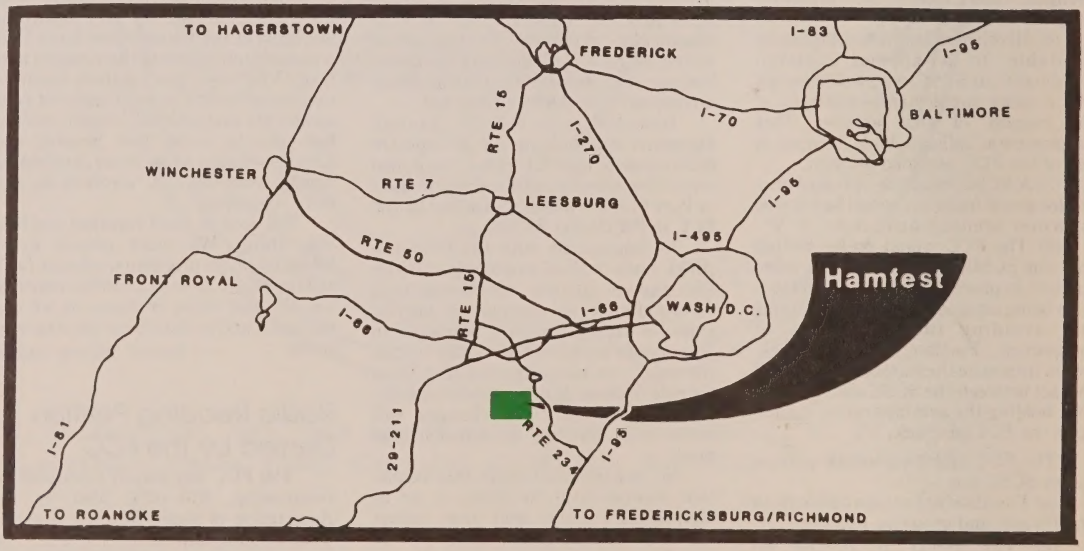

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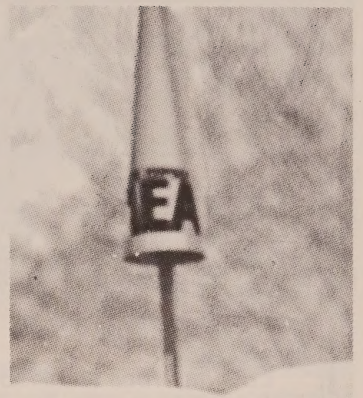

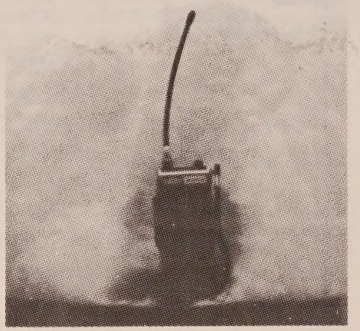

During the cold months of January, David Ward, KA4LVO, our Associate Membership Chairman was busy at home, revising the repeater printouts and memberships on the computer. You will note his trusty handi-talkie was nearby. Unfortunately the snow piled so high, his rubber duck couldn't see over it, so his half-buried vertical had to be placed into service.

And where was our Journal Sales Manager at this time? We are not sure. David isn't talking, nor is Sharon. Our spy was able however, to provide us with this picture of Sharon. Now, we don't accuse her of going anywhere there was sunny weather that shirtsleeves was the order of the day, but something sure seems funny about this situation, doesn't it? Maybe Sharon will "fess up" and tell us where she really went during that snowy, cold spell we had last January. The least she could have done was take hubby David along with her, don't you think?

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COVER STORY

Ground Teams Fox Hunt

Shelby, NC, Sat. 7 Feb: It was a fox hunt, or perhaps a "bird" hunt. Civil Air Patrol ground teams use "fox hunt" techniques to locate an Electronic Locator Transmitter (ELT) on a downed aircraft. CAP members do ELT search, both air and ground, regularly in the course of their search missions. This particular mission, however, was a part of North Carolina CAP's statewide, Air Force evaluated search training exercise.

Civil Air Patrol , an air search and aerospace education organization, uses radio communications extensively to support its emergency service mission. A number of amateur operators also serve CAP, and, as in the Winston-Salem Squadron case, several CAP people are introduced to radio in CAP and then become amateur operators. CAP uses discreet frequencies in the 80, 40, 11, and 2 meter bands and their stations have tactical calls similar to military calls -- North Carolina's tactical call is "Red Dog." Winston-Salem CAP Squadron members use both CAP and amateur frequencies to support their activity.

This Saturday morning Winston-Salem CAP Squadron ground and aircrews descended on the Shelby airport, along with similar teams from several other Piedmont and western North Carolina squadrons, to participate in the North Carolina CAP Wing's evaluated SARCAP. Jaime Burcham (KB4MZU, Red Dog 388), cadet commander, led the squadron's ground team. Bill Batts (KB4EAK, Red Dog 381), and Holli Nelson (KB4AKM, Red Dog 302), provided the adult supervision and chaufeuring.

The search teams used Elpers (hand held or vehicle mounted direction finders) to triangulate and to measure signal strength the "crashed" airplane location. The "crash" had an ELT transmitting on 122.6 MHz AM, aviation's ELT training frequency. However, the mounting of the ELT on the side the aluminum aircraft hulk skewed the signal leading all the search teams on erroneous tracks.

Members of the Winston-Salem CAP Squadron assist "injured" passengers of a simulated crash. The drill was held in Shelby in February. It began with the teams using radio direction finding equipment to locate the downed aircraft, then actual on the scene emergency drills. Both Amateur and CAP frequencies were utilized by the Amateur/CAPers during the simulated emergency. - Photo courtesy of Holli, KB4AKM.

Burcham picked up the Winston-Salem team's mission assignment and briefing, and the team set off in the KB4AKM Van, bristling with antennae for 2-M (both ham and CAP frequencies), 26.620 MHz, Aviation VHF, and two Elpers. Gear, neatly stowed as we left Winston, was now competing with team members for space. After several Elper readings about the village of Cliffside, plottings, and conflicting fixes, Winston-Salem CAP pilot Bill Walton (Red Dog 381 air mobile) led by the DF receiver in his airplane, tracked the ELT signal and made a visual find. He than talked in several ground teams including the Winston-Salem team. The Winston-Salem team was first on scene followed immediately by CAP teams from Charlotte's 111th AARS and the Hickory Squadrons.

The teams were confronted with a very well done and realistic accident scene staged by local CAP members and volunteer firemen. They secured the scene, aided "survivors", and then concluded with a detailed on scene briefing.

The training was well staged, applicable, nd pertinent. Communications were only slightly hampered by the local CAP repeater's being down. Vehicles and ground teams and aircraft operated simplex. Airborne mobile stations relayed messages between ground mobiles and the mission base station.

The Winston-Salem CAP cadet ground team had a good day of fellowship, learning, work, and play. The aircrew missed the silly songs, games, and pizza of the Van riders on the trip home.

Special Event Station

PORTSMOUTH, VIRGINIA - The Portsmouth Amatuer Radio Club will operate W4POX from the LIGHTSHIP PORTSMOUTH at the PORTSMOUTH SEAWALL FESTIVAL, June 5, 6, and 7 1500-0200Z. Frequencies will be around 3890, 7230 and 14290 MHZ. For special commemorative QSL, send your card and SASE to W4POX, 2800 Greenwood Road, Chesapeake, VA 23321. For QSL and a large commemorative certificate, send your card and a 9" x 12" envelope with two units of 1st class postage.

Explorer Post 82 CAP Receive Exploring Honors

Members of Old Hickory Council's Post 82, chartered to the Winston-Salem (NC) Civil Air Patrol Squadron, garnered several awards and recognitions at the Annual Old Hickory Council Exploring Awards Banquet.

Robert Stitcher (KB4MZV) received the Council Explorer of the Year award for his efforts in organizing the Exploring Weekend and in his position as Council Explorer Officer Association vice chairperson for activities. Stitcher is the third Post 82 Explorer in succession to earn this award. Jaime Burcham (KB4MZU), and Gwyn Armfield (KA4SJV) received the award in 85 and 84 respectively.

William E. Batts, III (KB4EAK), the post advisor, received the Exploring Advisor's Key, an award given for completion of Exploring Advisor Training and participation in certain Exploring events, and for Advising a Post that meets Honor Unit criteria for two out of three years.

Jaime Burcham (KB4MZU) received a special recognition for his service as the council Explorer Officer Association chairperson for 1986.

Robert Stitcher (KB4MZV) was installed as the EOA vice-chairperson for activities for a second year.

No Stubbie This Issue

We are sorry to report there is no Stubbie cartoon this issue of the Journal. Our Chief cartoonist, Fred Hurteau has been tied up on a new job over the past month and was unable to draw us one.

We're sorry about the situation, but Fred promises to be back on the board by next issue.

If Your Journal Doesn't Come Here's What You Can Do. . .

— by David Ward, KA4LVO, Assoc. Mbr. Chrmn.

Within days after an issue of the Repeater Journal is mailed, notes begin appearing in the PO Box regarding non-receipt of the Journal. In over half of these cases, there is a explanation. But in the other cases, the explanation is not known. This article is intended to mention these known reasons and explain the procedure for handling the unknown.

On several occasions, I've received letters regarding not getting an issue of the Journal even before the Journal is put in the mail. Those of us who contribute to getting the Journal together and out appreciate the anticipation you show in wanting our work. On average, an issue of the Journal goes in the mail the first Monday of the month indicated on the Journal's front cover. A press run is needed by the fifth of the preceeding month so that the covers can be prepared and the printing scheduled. Because we attempt to keep membership dues low, we do not print many extra copies or pay the $1.00+ postage necessary to mail individual copies. We print only a few more copies than are needed for the upcoming mailing. Our goal is to send the Journal to those people who are current as of the fifteenth of the month prior to publication month. Please refer to our policy as printed on page 2 under "About Associate Membership".

Another problem that has a clear answer is the change of address. The Journal is entered as 3rd class bulk rate mail at the Greensboro NC post office WITHOUT forwarding requested. Even if the member has told the post office that he would pay forwarding postage on his magazines, the Journal is often not forwarded. If the Journal cannot be delivered, the post office destroys it. Occasionally, I get a note that says "I have not gotten my Repeater Journal. My new address is .". We MUST be notified of any change of address so that your copy is mailed to the right place. Due to previously mentioned printing and postage costs, the resources are not there to resend copies. Thus the solution to the problem reverts back to the member.

Still another possibility where a Journal was not received is that the membership has expired. Quarterly, renewal notices are sent to those associate members whose membership expires in the next quarter. Eighty percent of those are returned in time to not miss an issue. Apparently, some renewal notices are never received by the member. For this reason, check periodically when your membership expires BEFORE you miss an issue.

And then there are those problems that are beyond the scope of what you or I can handle. When I get a note from a member about a Journal problem, I first check the mailing address in the computer with the address given by the member. Next, I check the expiration date in the computer and cross-check it with the deposit records. If the mistake is with the member, they are notified of the problem by letter. If the mistake is with us, a Journal is sent out (if available, otherwise, the membership is extended) accompanied sometimes by a letter acknowledging the mistake. Finally, I check my master mailing list for the issue in question. (As each label is printed, an identical record is written to another file listing the labels as printed.) If this list shows a Journal was mailed, I generally make a photocopy of my master mailing list showing proof of the mailing, write a short note and return this to the member. In this note, I may suggest that they file a formal complaint with their post office. This is easiest done by filling out PS Form 4314-C found in the lobby or at the desk in any Post Office. This 4-part form is used to request information, make a suggestion, notify of a problem, or register a complaint regarding a postal service matter. The instructions are printed at the top. After completing the form, tear off the top copy (which is your copy), complete the address on the back of the last copy, and drop the remaining 3-part form in the mail. You should be contacted by someone from the Postal Service in a few weeks.

I hope this explains what goes on when you file a Journal mailing complaint with us. We try to be as accurate as possible in maintaining the data, but we do make mistakes. We'll research the problem and remedy it as soon as we can, if we can remedy it. If we can't, we'll suggest the course of the action for you to take. At that point, the responsibility is up to you.

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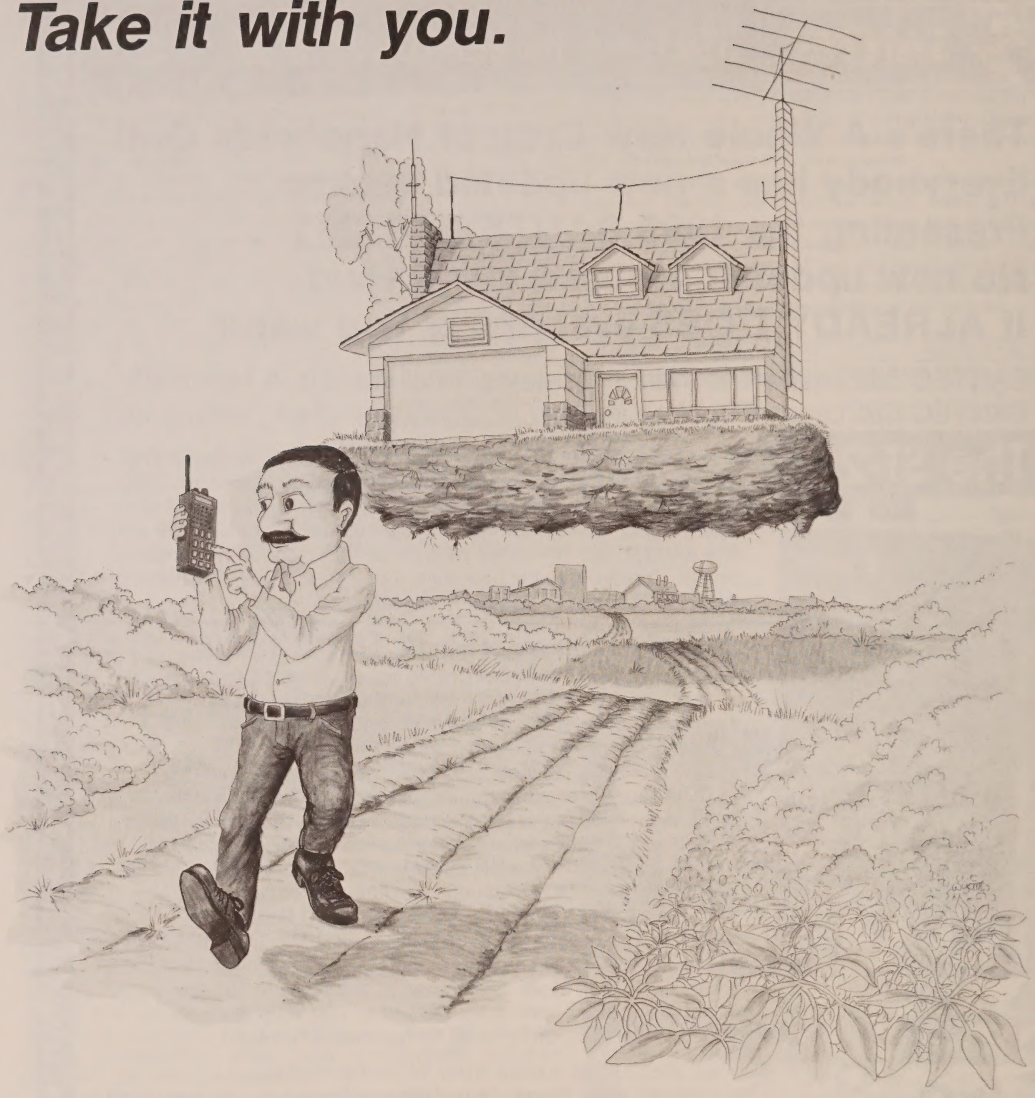

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Looking back

—by David Ward, KA4LVO

The Repeater Journal

May 1977

In all preceeding articles that looked back at the CVRA and the Repeater Journal 10 years ago, I mentioned the story that appeared on the front cover. Beginning with the February 1977 issue of the Repeater Journal pictures replaced the typewritten cover. The first picture to appear as the cover of a Journal was taken from a tower on Sauratown Mountain north of Winston-Salem, NC. It showed field day activities of the Greensboro Radio Club with nearby Pilot Mountain in the distance. For this second photo cover, Editor Bill Parris chose a fuzzy image of the typical hamshack bench.

Major changes were taking place within the CVRA. CVRA had just undergone reorganization; now there were only 3 districts as compared to the earlier nine. State directors were Charles Durst, WA4WTX in NC, Wade Holland, W4AZT in SC, and Carter Cogle, K4ARO in Virginia. Vice-Directors were Eddie Sellers, W4NTQ in NC, Hugh Minton, K4FR in SC, and Al Dyson, W4PDL in Virginia. Another change was the discontinuance of the yearly CVRA Handbook normally printed as a part of the May Repeater Journal. Instead of printing the Handbook once a year, it was decided to put a more detailed repeater index in each regularly scheduled Journal. The expense that had gone into this Handbook was now being used to "upgrade" the Journal with pictures and better printing.

With regards to the Journal printing, the May 1977 issue was printed by ALA-Press, Inc., owned by Buster Brafford, WB4ZIN. A note from Bill Parris stated that Buster would be laying out the material and the Journal in general. This would take some of the time-consuming load off the editor. But another change was in the works. This would be the last issue where Bill Parris was the primary editor. Beginning with the next issue (August 1977), Wayne Williams, K4MOB would assume this role.

Among the advertisers in the May 1977 issue were three hamfests and three radio/electronics dealers. An all solid state synthesized KDK 144 transceiver was listed at $389.00. Options were a touch-tone pad ($59), regulated power supply ($49), and a half wave portable antenna ($7.95). A Wilson WE-800 sold for $399 and the 1402SM Handheld 2 meter 2.5 watt rig cost $192.95; the 5 watt one was $259.95. The 220 mHz HT sold for $259.95 and the 440 mHz HT was $324.95. There were also 21 business card and repeater group advertisers in this issue.

The main story in the May 1977 Repeater Journal was written by NC Director Charles Durst regarding the two meter frequency situation. In some areas, all the pairs on the standard 30 kHz spacing had been used up. Thus a plan had been devised to use 15 kHz spacing. Guidelines had been established and were printed in the Journal.

Buried amongst all the district news stories was a small one about the Carolinas-Virginia Repeater Association Information Net that started on March 2, 1977. It was created by Wayne Williams as a place for Amateurs to ask questions and to pass information back to the hams in the Guilford County (NC) area. Check-ins were running from 20 to 30 per week.

In other stories, there were now 98 repeater members in the CVRA. A story about interference reminded repeater users not to use more power that was necessary to work a repeater. News from the "bordering states" of Tennessee, West Virginia, Kentucky and Georgia was included. Watson Gabriel's (WB4EXW) "Technikle Topix" dealt with converting a Radio Shack base loaded CB antenna for two meter use. Another article covered the AMSAT program, its past and future.

Finally there was a short article that had been taken from "Action Mini-Mag" of Jackson, Michigan. It read as follows. "Another regulatory measure with far-reaching restrictive potential not only for Amateurs but for commercial and broadcast interests as well is rumored to be brewing in Washington as a result of recent studies by the EPA. If enacted, the new regulation would restrict the height of all self-supporting antenna towers of less than 2.5 sq. ft. base cross section (which includes a large majority of amateur type towers) to a height of NO MORE THAN 34 FEET. (Heights for guyed towers with larger bases would also be restricted in accordance with a complex formula which need not be printed here.) The report on the EPA studies cites the following points: 1) most amateur towers (Yes it started there, and the hams will get the blamel) average 60 feet or more in height, are usually free-standing, and usually have beams mounted on top; 2) wind effects on towers of this type cause random shear and bending movements which result in the familiar "shaking" of the towers which, until now no one has been overly concerned about; but, 3) it often happens, especially in the late spring and throughout the summer months in the temperate zones of the world, that this shaking effect is transmitted to the surrounding earth, disturbs all the EARTHWORMS in the vicinity, causes them to come to the surface (often during the hottest part of the day), and this inordinate exposure of the earthworms to the direct rays of the sun causes them to expire prematurely from sunstroke, thus upsetting the ecology."

The Perils of an Amateur Earthworm . . . .

SERA Board to Consider New 220 Mhz Packet Freqs.

A proposal has been made to the President of CVRA-SERA to allocate additional frequencies in the 222-225 Mhz. portion of the 220 band for Packet. The FCC is their Novice Enhancement program, did not authorize operation in the lower portion of 220 Mhz. where most packet is assigned.

It is felt in fairness to the Novices, additional packet frequencies should be assigned on 220 Mhz. enabling them to operate in the CVRA-SERA Territory.

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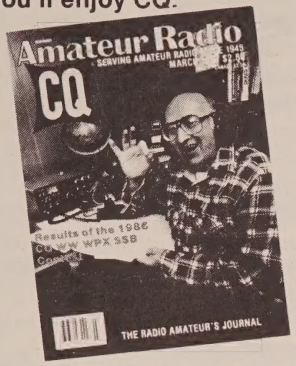

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MARS Station Will Participate in Field Day

In recognition of the long-standing tradition of cooperation between the Amateur Radio Service and the Military Affiliate Radio System (MARS), certain MARS stations will participate in the 1987 ARRL Field Day to provide bonus points.

A bonus of 100 points will be earned by Field Day stations who contact at least one participating MARS station. Additional contacts will count for normal QSO credits. Field Day entrants should check the "other" box for bonus points on the Field Day summary sheet.

MARS stations from each of the three services, Air Force, Navy-Marine and Army will be working on their authorized frequencies. Listening frequencies inside the Amateur bands will be announced.

Amateurs are cautioned in operating "split" to be sure they are transmitting on the proper frequency. MARS stations will give their callsigns and send a signal report for the exchange. More information may be found in the Field Day announcement in this month's QST Magazine.

Editorial Comment

Continued From Page 1

now, it's going to get downright critical in a few years. We're still looking for some good ideas, and volunteers who will help spread the word. We've just about decided that it's not something we're doing wrong, but probably somethign we're not doing right to get more members. North Carolina even with a very small dip in membership, still boasts 47% of ALL the total membership of CVRA-SERA. This makes me happy that at least one state is maintaining numbers, but sad that the others are continuing to dip. Any fresh ideas?

• • • •

I can report our SERA News Net on Wednesday nights is still growing. We have picked up about 8 more repeaters since the last issue of the Journal, and we have about 8 to 10 more planning to come on line by Summer. Any repeater owners wishing to carry the "News Net" only have to pick up the signal and re-broadcast it. We do ask that you let us know so we can acknowledge you are with us. Our repeater numbers are approaching 30 carrying the net, in the States of Virginia, West Virginia, East Kentucky, Tennessee, and North Carolina. We are expecting to get some South Carolina repeaters on line soon, and a couple of Georgia repeaters have indicated a desire to carry the net when we can get the signal down to them. We're working on that.

• • • •

There's a lot of moving of Hamfest dates this year so be sure to check our Calendar on the back page. We also noticed several shows are at new locations this year, making improvements for the attendance. Richmond, Va. moved into a new larger building this year for their show. Charleston, WV moved into the Civic Center which gives them an excellent location, with plenty of room to expand. Others moving include Bluefield, WV and Asheville, NC.

• • • •

We appreciate the very fine compliments we have received on the new color covers on the Journal. We really had to scratch to get a slide for this issue. You photographers out there should keep us in mind when you go out shooting slides at Hamfests, Club meetings, antenna parties or any other Amateur related event. We'd really like to have your positive color slides for future issues of the Journal. We'd like to welcome YAESU who joins ENCOMM in full color on our inside covers. These two public spirited distributors are the ones responsible for the Journal being able to afford full color on our outside covers.

• • • •

David, KA4LVO, our Computer keeping Associate Membership Chairman, who also writes the "Looking Back" column in the Journal reminded me that next issue is my 10th anniversary issue of the Repeater Journal. Our first Journal as editor was the August, 1976 issue. David suggests we might do something special, commemorating the event. We'll see! Sure doesn't seem like 10 years, but you know what they say, "Time sure flies when you're having fun."

• • • •

ACC Controllers, one of our National advertisers sure ought to be happy. I've never heard so many RC-850 and RC-80 controllers going on repeaters in the area in my life. That seems to be the trend. (We know all these units were purchased as a result of the ad in the Journal. . . right????)

• • • •

That's about it for this issue. Many thanks to all of you who do so much to contribute to the Journal. Without you we couldn't do the job of making the Repeater Journal a magazine to be proud of. I am . . . hope you are too!

—— *Wayne C. Williams, Editor*

WEST ANTENNA SERVICE – YOUR SOURCE FOR ROHN TOWERS AND ACCESSORIES

Rohn 25-G Straight Sections

In addition to a large stock of straight tower sections, we also have flat and sleeved top sections, trust bearings, house brackets, short base sections, rotor plates, guy assemblies, guy wire, cable clamps, turnbuckles – you will need for a complete tower installation.

Utility Poles & Hardware

We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N.C. area.

Scotchkote Electrical Coating

Made by 3-M Co. Can be used for underwater connections also. A 15 oz. can will do 50 to 100 connections.

15-oz. can Scotchkote coating $8.00

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ALL TYPES OF ROPE AVAILABLE

SIZES FROM NO. 4 TO 1-INCH
Call for Prices on Sizes and Types

West Antenna has a huge inventory of all types of synthetic rope in all sizes to fit your every need. Write or call for a free rope catalog. Large or small, your rope requirements can be met by us.

Some Types we Stock:

- Unmanila – looks like manila . . . feels like manila . . . but it's not, it is a new polypropylene fibre
- Polypropylene – 3 strand twisted . . . a first class 3-strand twisted 100% mono filament polypropylene rope, twice as strong as manila.
- Mariner . . Diamond Braid Polypropylene rope, 8 strands, a real work horse. Easy to splice resistant to damage by rot, abrasion, oil grease.
- Twisted Nylon rope . . . regular 3-strand, medium lay nylon rope, the strongest rope in general use today. Will stand sudden shock.
- Solid braided Nylon Cord . . . very strong, soft lightweight, resistant to rot, abrasion, mildew, with shock absorbing elasticity.

Plus many more kinds and sizes and strengths

Check These Rope Specials:
BLACK TWISTED POLYPROPHELENE

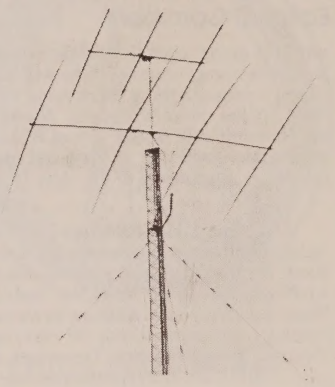
Good for dipoles or overhead supports on beams at a very low cost. Lasts two or three times longer in the sun than regular poly rope.

1/4-inch 4-cents/foot
600-foot spool 16.88
1,000-foot spool 26.88

3/8-inch 8-cents/foot
600-foot spool 37.50

Hard Line and Connectors

West Antenna Service can also supply 1/2 and 7/8-inch hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.



BATTERY TAPS

Assembly provides connection to battery cable on the new side-terminal batteries, or any connection situation where terminals are not accessable. Slips over cable and set screw penetrates jacket for contact. Radio wire slipped into hole and second set screw tightens. Has proven quite adequate for high current needs.

Battery Taps ..... 4.95 ea.

POLYPHASER Lightning Suppressers

High quality commercial units. Low loss, low noise. Frequency range through 1 Ghz. Bulkhead and inline types available, including rotor cable and D.C. control lines. Call for prices.

2-way shops are urged to check for Dealer Pricing.

MISCELLANEOUS

PL-259 CONNECTORS (U.S. Made) ..... 65¢ ea.
10 or more ..... 60¢ ea.
UG-175 or 176 ADAPTERS ..... 30¢ ea.
10 or more ..... 25¢ ea.

Other Tower Accessories

Aluminum mast pipes, feature 2-inch OD 6061 tubing with 1/4-inch wall.

12-foot lengths, 19 lbs. - In Stock
24-foot lengths, 38 lbs. - In Stock

Touch rust spots on your tower and antenna bolts with RUSTOLEUM, cold galvanizing.

Large 20-oz. Industrial spray can ... $6.00

Stainless Steel Strapping Kits

Stainless steel strapping kits, for strapping hard line or multiple runs of Coax. Kits come with 25, 50 or 100-feet of stainless steel strapping and buckles.

25-foot strapping kit $18.00
50-foot strapping kit $25.00
100-foot strapping kit..... $36.00

FOR THE ULTIMATE MOBILE INSTALLATION

We have what you need — wire, fuse blocks, fuses, connectors, relays! You want your Mobile Low band or amplifier installation to work efficiently. We have the proper wire, fusing and parts needed for a perfect installation.

WIRE – Single Conductor-Stranded,
red or black vinyl insulation . .
#10 wire.....30¢ per foot #14 wire.....20¢ per foot

FUSE BLOCKS – Our fuse blocks are rugged holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.

30-Amp Fuse Block $4.95
60-Amp Fuse Block $5.95

FUSES—5,6,7,8,10,20,25,30 Amp ....80¢ each
35,40,45,50 & 60 Amp. Fuses also available upon request.

RELAYS—These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting. .....Special $13.95

40-Amp cont. duty, solenoid-type, 12V 19.95
(Commercial Dealers, call For Dealer Prices)

OTHER ACCESSORIES AT GOOD PRICES!!

GUY WIRE INSULATORS – Compression-type porcelin. Approx 1½x2½-inches, 3/8-inch hole
Insulators .....$2.00 each 10 or more ....$1.80 each

STEEL WIRE – Zinc coated. Can be used for antennas or light guy wire, not recommended for tower guying. Sold in 10 lb. coils only.

#9 approx. 170-ft. $13.00
#12½ approx. 382-ft. $13.00

14-gauge Solid Copper THHN insul.
500-ft. spool $15.00

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Harwood West, WB4RLO • Local Call 621-2473

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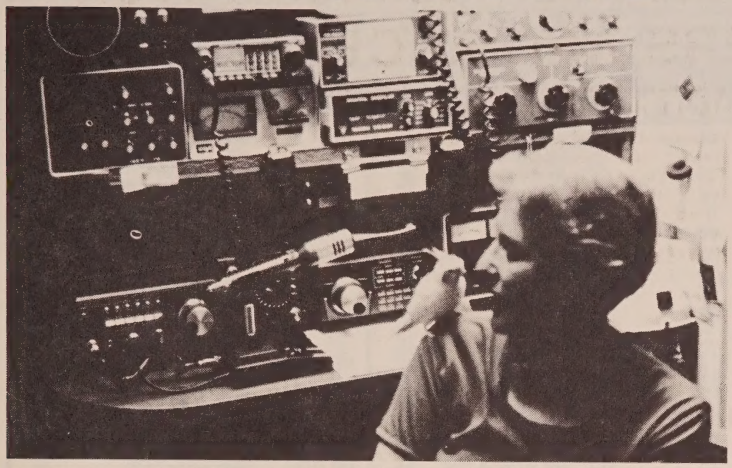
GREENSBORO, N.C. 27405

CALL TOLL FREE 1-800-334-4252
NC RESIDENTS 1-800-632-0389

An Amateur Radio Bird



Mary Weddle, WC4T, with "Pretty Boy/Dirty Bird" who is despondent in this photo, since his Kenwood 7950 has gone to California for repairs. (Note "hole" in array, just above his favorite perch, the Yaesu mike.) — Photo by WD4CYM

— by Clyde & Mary Weddle

In the summer of 1980, Clyde who was recovering from by-pass surgery, was observing the ritual of heart patients: walking and walking. Something brushed his shoulder and flitted to the ground in front of him. Despite stifling chest pains, he bent to take the small white baby bird into the large, gentle hands. He quickly covered the baby with the other hand to prevent any suspicion from his walking companion, "Keppie", the Siamese cat. He came into the kitchen, opened his hands and revealed the dirtiest creature we had ever seen. The little bird was covered with cobwebs, dirt, and granules of tree bark that had washed down the trees from the storm the night before. As we wiped the matted cobwebs from it's beak, he flew to our daughter Karen's shoulder and stayed. We called pet shops, neighbors, and scoured the paper looking for the owner. During the following weeks none could be found. Karen is a cat lover, and takes on all strays. At that time, in addition to the Siamese, there were seven other cats in residence. What were we going to do with a BIRD!

The baby bird took up permanent residence on Karen's shoulder. He could even hang on when she changed clothes! He left only to sleep in a dime-store cage we had bought "until we could find the owner." All cats were banished to the sun-porch, with the exception of the Siamese, who totally ignored the bird. We were involved in a new undertaking that summer. . . learning Amateur Radio. Karen, self-taught, had been a Ham for about five years, and held the call WD4CYM. We were grasping for something to keep Clyde entertained during his long period of recuperation. Enrolled in a Novice class, we were being tutored at home by Karen. Seated at the kitchen table, with the bird on her shoulder, she sent endless code practice to us with a hand keyer. When Karen was operating her Yaesu station, the bird would sit on the VFO knob, and watch the meters bounce. He was partial to CW operations, but was fascinated by 2-Meters. "Get that dirty bird off the rigs!" Clyde would roar, and we would reply "He's not dirty, he's a Pretty Bird!"

As time passed, the bird grew beautiful white feathers to replace the curly-cues under his skin as a baby. The wings and tail were shed, and replaced by white with yellow-tipped feathers. He learned several words, and would answer statements made to him. When Clyde would say "Hello Dirty," he would reply "Hello, PRETTY BOY, Dirty." Somehow, he learned to say "Mary," but he was too busy with Ham Radio to ever say the other names of the family. He would say a few things in our language, but he also taught us more of his language. There are certain chirps and squawks for certain things, and whistles of approval and disapproval.

As the bird grew to maturity, we upgraded our licenses several times, and kept acquiring additional radio equipment. The bird inspected every new thing that was brought in, and was ecstatic the day a Kenwood 7950 was installed in the stack. The green, yellow, and red lights mesmerized him, and he would sit on the Yaesu mike on the shelf below, which brought him eye level with the LEDs. He would talk and sing to them for hours, and scream in anger whenever the traffic would cease, and the LEDs go off. He has especially enjoyed the digital controller on one of the Charlotte Repeaters, with the sound effects, the computer voices, etc. He has learned all the "regulars" on different repeaters, and has reactions to all of them. Som of these are:

- To Son-in-Law Steve, WB4PRE, on the Shelby 6.88 Repeater: he screams angrily. (He has never forgiven him for taking Karen away 4 years ago.)

- To Wayne Williams, K4MOB, with the Wednesday Night Link-Repeater Net: He gives soft or loud Wolf Whistles (Whee-Whooo-o) at the end of each news item Wayne reads, louder according to importance or impact. (At the mention of "FCC" he has a throaty sqawk!)

- To Elizabeth Ramsey, N4NIO, on the Mt. Mitchell 5.19 Repeater: He reacts to Elizabeth's sunny voice by singing complicated eratic arias.

- To Charlie Hudson, WD4ABZ, on the Charlotte Repeaters, he reacts by repeating: "Come Here, Come Here."

- To daughter Karen, WD4CYM, on the Shelby 6.88 Repeater: a brisk Cheep! Cheep! accompanied by a lowering and fluttering of the wings.

- To Sue Chism, N4ENX, on the 6.61 Greenville, SC Repeater: He says "Hello Pretty!"

He was making some unintelligible sounds to us, until a couple of years ago, we read in the Western Carolina Amateur Radio Society's "Smoke Test" an article written by Pat Trexler, WA4UTX, wherein she described that her bird would mimic the identifier on the Pisgah 6.76 Repeater. We listened again, and sure enough! Dirty Bird was trying to duplicate the CW "W4BFB" on the Charlotte 6.94 Repeater!

Dirty's most memorable on-the-air QSO was with Sid Watts, WB4L, on the 146.76 Repeater, consisting of "Hello Pretty Boy; Hello Dirty; Huh? and Come Here." There is something about Sid's voice that "turns on" the bird. Even if he is covered at night, and Sid is talking on the 6600 Net, or elsewhere, Dirty will begin saying all the words he knows!

It has been necessary to take the bird's cage to other rooms at times. This is how we found that he is an RF addict. Whenever he is ever away from his beloved 2-Meters, he refuses to eat, drink or speak. He just sits lifeless on his perch. We were painting and redecorating last year, and moved the bird to a sunny bedroom. We were bombarded with angry screams, and then silence. The only way he would tolerate this brief relocation was when Clyde set up a power supply and 2-Meter rig beside the cage. . . tuned to the 145.19 repeater!

Just remember: whenever you give a call on any of the N.C./S.C. Repeaters, don't be surprised if you are answered by a bird! He KNOWS when the mike is keyed, and sometimes beats us to the draw!

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The By-City Index Appears On Following Pages

2 METERS

5.01 /PKET	MZY	BEREA	EKY
	BEJ	ELIZABETHTOWN	EKY
	WAU	ELKHORN CITY	EKY
	AGA	FRANKFORT	EKY
	ICS	GREENSBURG	EKY
	AVX	HAZARD	EKY
	NB	LEXINGTON	EKY
	AUZ	LEXINGTON	EKY
	JAV	LEXINGTON	EKY
	SWF	LOUISA	EKY
	MOP	LOUISVILLE	EKY
	FHK	PRESTONSBURG	EKY
	FDK	WINCHESTER	EKY
	JF	ADEL	GA
	CNV	AUGUSTA	GA
	EAW	CLARKSVILLE	GA
	KAU	COHUTTA	GA
	ABT	COLUMBUS	GA
	GOX	CUMMING/SAWNEE	GA
	GOX	FORSYTH	GA
	TXT	HAMPTON	GA
	ICT	PERRY	GA
	KIN	PERRY	GA
	ULJ	PINE MT/HAMILTON	GA
	ICT	ROBERTA	GA
	LYV	SYCAMORE	GA
	AGT	WARNER ROBINS	GA
	BFB	CHARLOTTE	NC
	RDL	CHERRY MTN	NC
	CYP	GOLDSBORO	NC
	JPQ	GREENVILLE	NC
	BWC	RALEIGH	NC
	ITL	RALEIGH	NC
	RXG	SAURATOWN MT	NC
	OKW	SPIVEY MTN	NC
	FX	ANDERSON	SC
	LYF	CHARLESTON	SC
	EOY	COLUMBIA	SC
	TKM	CONWAY	SC
	ULH	FLORENCE	SC
	WJR	LANCASTER	SC
	P	SUMTER	SC
	BFS	ELIZABETHTON	TN
	PTZ	GALLTN/MUSIC MT	TN
	NK	KNOXVILLE	TN
	YON	KNOXVL/CROSS MT	TN
	MJM	PIKEVILLE	TN
	YXA	SHORT MT	TN
	AG	ACCOMAC	VA
	BLD	BEAR DEN MT	VA
	MZ	BLUEFIELD	VA
	TFZ	CHARLOTTESVILLE	VA
	PGI	COVINGTON	VA
	FRV	FORK MTN	VA
	OB	FREDERICKSBURG	VA
	PB	GARRISONVILLE	VA
	UMI	HAMPTON	VA
	UMI	HAMPTON	VA
	LKQ	LYNCHBURG	VA
	TSC	MIDDLEBURG	VA
	BBF	ONEIDA	VA
	ARQ	RICHMOND	VA
	FHL	ROANOKE	VA
	CSG	STEPHENS CITY	VA
	KXV	VIRGINIA BEACH	VA
	JFI	WASHINGTON, D.C.	VA
	FQR	WOODBRIDGE	VA
	VR	WYTHE/SAND MTN	VA
	EUU	HUNTINGTON	WV
	FOJ	LOGAN/BLAIR MT	WV
	BHI	MORGANTOWN	WV
	SLI	ST ALBANS	WV
	ZR	TERRA ALTA	WV
	YYW	WILLIAMSON	WV
5.03 /PKET	JJ	ATLANTA/EAST	GA
	ZV	ATLANTA/EAST	GA
	BXO	LAGRANGE	GA
	HWU	COLUMBIA	SC
	AG	ACCOMAC	VA
5.05 /PKET	ICT	MACON	GA
	KIN	PERRY	GA
	LYV	SYCAMORE	GA
	ACY	WARNER ROBINS	GA
	ACY	WARNER ROBINS	GA
	CEB	CONCORD	NC
	ARO	PETERSBURG	VA
5.07 /PKET	TH	COLFAX	NC
	USE	WOODBRIDGE	VA
5.09 /PKET	MM	ALBANY	GA
	GOX	AMICACOLA MT	GA
	KAU	COHUTTA	GA
	EO	FAIRMONT	GA
	G	ROME	GA
5.33 /PKET	MOD	MEMPHIS	TN
7.43 /4.93	M	LYNCHBURG	VA
4.51 /5.11	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	RXG	SAURATOWN MT	NC
	JSD	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIFTON	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HODGES	SC
	CMY	CHATTANOOGA-RTTY	TN
	OAK	LAFOLLETTE	TN
	VL	GALAX/LKOUT MT	VA
	FHE	BUCHANNON	WV
4.55 /5.15	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA/GA TECH	GA
	LI	MILLEDGEVILLE	GA
	UDS	MORENTN/HI PK	NC
	GBI	RANDLEMAN/GBO	NC
	RJC	DECATUR-PONE KB	TN
	HCK	FRANKLIN	TN
	JE	JAMESTOWN	TN
	ARO	CREWE	VA
	DBN	MARMET/BEE MT	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	DIW	JONESBORO	GA
	JWO	NEWTON	NC
	EKK	OXFORD	NC
	QJF	COLUMBIA	SC
	V	LENOIR CITY	TN
	LHO	SMYRNA	TN
	DKL	BOLT/BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM(AL)	GA
	ULJ	PINE MT/HAMILTON	GA
	BVW	MT MITCHELL	NC
	XX	JASPER	TN
	DOR	LEBANON	TN
	B	RICHMOND	VA
	JGY	WHEELING	WV
4.61 /5.21	U	DEAN	EKY
	PSZ	TYRONE	GA
	GGK	LEWISVILLE	NC
	ITL	TRENTON	NC
	NEP	GASTON	SC
	KFD	KNOXVILLE	TN
	MS	KILMARNOCK	VA
	B	LEBANON	VA
	FEQ	HUNTINGTON	WV
4.63 /5.23	PPM	MIDDLESBORO	EKY
	JF	ADEL	GA
	UJ	DALTON	GA
	NLX	SAVANNAH	GA
	BFB	CHARLOTTE	NC
	RA	MURFREESBORO	TN
	DBB	BEDFD/APL ORCH	VA
	UMI	YORKTOWN	VA
	K	LOGAN/BLAIR MT	WV
4.65 /5.25	BZJ	DALTON	GA
	KOK	FOREST PARK	GA
	AZM	GOLD HILL/GBO	NC
	URP	CHARLESTON	SC
	DRL	FISHERVILLE	TN
	AJS	NASHVILLE	TN
	JNC	CASTLEWOOD	VA
4.67 /5.27	PN	WALESKA/PNLGMT	GA
	KNI	HENDSVL/BERWLW M	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVILLE	TN
	CJX	SEV/SHIELDS MT	TN
	JCE	MANASSAS	VA
	OG	CRAIGSVILLE	WV
4.69 /5.29	ICN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	BFB	CHARLOTTE	NC
	FTB	GIBSONVILLE	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SOC	ELZ/JC/HLST MT	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
4.71 /5.31	CEK	COLUMBUS	GA
	JDR	STOCKBRIDGE	GA
	ITL	BURLINGTON	NC
	ITL	ROANOKE RAPIDS	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN MT	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR MT	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND CTY	TN
	TEM	KNOXVL/SHARPS RG	TN
	OQI	FARMVILLE	VA
	VNQ	PARSONS	WV
	GOE	WILLIAMSON	WV
4.75 /5.35	R	HARLAN	EKY
	CPL	DECATUR	GA
	EV	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AOD	FALLS CHURCH	VA
4.77 /5.37	ACH	COLUMBUS-RTTY	GA
	IZF	JASPER	GA
	AGN	N. WILKESBORO	NC
	GRC	KNOXVILLE	TN
	CBF	MT JULIET	TN
	IMI	GLOUCESTER	VA
	FWL	BECKLEY/EOC	WV
4.79 /5.39	HYB	GRIFFIN	GA
	NJ	MONROE	NC
	TZ	CHATTANOOGA	TN
	EPC	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	VM	STANTONVILLE	TN
	ZIV	GALAX	VA
	EOM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	VIP	MEMPHIS	TN
	FHE	BUCKHANNON	WV
4.83 /5.43	UPC	ATLANTA/SWEAT MT	GA
	VBA	LINEVILLE(AL)	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN MT	NC
	HWU	COLUMBIA	SC
	UCE	COOKEVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	ATLANTA	GA
	KBD	JACKSONVILLE(FL)	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	SIR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	SWEAT MTN	GA
	GIC	SAURATOWN MT	NC
	OXE	INMAN	SC
	CKB	KNOXVILLE	TN
	OMO	MOUNTAIN CITY	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LICK KB	WV
4.89 /5.49	JA	AUGUSTA	GA
	RWS	CORDELE	GA
	OPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALLACE	SC
	KKO	MCMINVL/SHT MT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	OHX	NEWPORT NEWS	VA
	MOP	BLUEFIELD	WV
6.895/6.295	T	HARTWELL	GA
6.925/6.325	ASI	COVINGTON	GA
6.985/6.385	HHH	ELLIJAY	GA
6.01 /6.61	FIZ	COLUMBUS	GA
	JEH	CONYERS	GA
	BDP	WARNER ROBINS	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS HD	SC
	IOM	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	LSP	BRUMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
	MZI	GASSAWAY	WV
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	OWK	LARNBRG/SCOTLAND	NC
	FJX	CHESTER	SC
	ZOX	MARTIN	TN
	AVW	NEW MARKET	VA
	BZS	FLAT TOP/WINTERP	WV
6.04 /6.64	YZY	PINEVILLE	EKY
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVILLE	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALEM	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	GYS	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	OEY	RICHMOND	VA
	EZR	HUNTINGTON/CHAS	WV
6.055/6.655	NFP	MARIETTA	GA
	CEB	CONCORD/KANNAP.	NC
	VTX	ELIZABETH CITY	NC
	ABU	BROWNSVILLE	TN
	Z	CHATT/SIGNAL MT	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
	HON	SPRUCE KNOB	WV
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	ILW	BRISTOL	TN
	BGW	LAFOLLETTE/WMT	TN
	NTM	NASHVILLE S.W.	TN
	HZS	BARREN SPRINGS	VA
	ZR	LEXINGTON	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	IQT	LEEDS(AL)	GA

Continued On Next Page

REPEATERS BY FREQUENCY

6.085/6.685	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	PIO	LENOIR CITY	TN
	Q	WAVERLY	TN
	HTA	VIENNA	VA
	FMD	CLARKSBURG	WV
6.10 /6.70	JO	GRAYSON	EKY
	MM	ALBANY	GA
	OOM	JASPER	GA
	DOJ	MILLEDGEVILLE	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UOT	MANCHESTER	TN
	UFT	MEMPHIS	TN
	YGM	UNION CITY	TN
	WOS	DANVILLE/WHT OAK	VA
	BHH	DUFFLD/POWLL MT	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREEK	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXE	STERLING	VA
	GL	SHERRARD	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	TVE	BRUNSWICK	GA
	FT	MARIETTA	GA
	NC	SWEAT MTN	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	BJY	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	VZ	LEBANON	TN
	DAZ	MEMPHIS	TN
	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE DEE	SC
	HF	DYERSBURG	TN
	OOJ	ROANOKE/POOR MT	VA
	FMD	BURLINGTON	WV
6.16 /6.76	BOC	ATLANTA/STONE MT	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PISGAH	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	OCB	FT JACKSON	SC
	POP	NASHVILLE	TN
	TFZ	CHARLOTTESVILLE	VA
	STE	LYNCHBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RTTY	NC
	DHW	ELIZABETHTOWN	NC
	JVD	PULASKI/MUS MT	TN
	EMS	WYTHEVILLE	VA
6.19 /6.79	GEL	PIKEVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA
	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS MT	SC
	IVE	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	FH	JOHNSON CITY	TN
	SQE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	NNE	GUTHRIE	EKY
	LT	MILLEDGEVILLE	GA
	EWG	FAYETTEVILLE	NC
	NOQ	GASTONIA	NC
	NNA	GUTHRIE (TN/KY)	TN
	HTI	COVINGTON	VA
7.405/6.805	HCY	MAGGIE VALLEY	NC
6.22 /6.82	MM	ALBANY	GA
	DOC	ATLANTA	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS MT	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	UEW	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
6.235/6.835	UA	AUGUSTA	GA
	P	HAMPTON	GA
	OCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BODIE	NC
	IAT	WADESBORO	NC
	CYZ	HAZEL MT	VA
7.435/6.835	BPV	HIGH POINT	NC
6.25 /6.85	IXA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	HON	WARNER ROBINS	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT. MT	NC
	YFT	REDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	GTLBG/COVE MTN	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BECKLEY/FLAT TOP	WV
	WYH	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BIG KNOB/GREY CT	SC
	G	FAYETTEVILLE	TN
7.465/6.865	ZRS	WAXHAW	NC
6.28 /6.88	KUC	PRESTONSBURG	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	OUTMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	COV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	OOA	WAXHAW	NC
	KXV	VIRGINIA BEACH	VA
6.30 /6.90	ACN	JASPER(AL)	GA
	SP	FAIRMONT	WV
6.31 /6.91	GFY	MOREHEAD	EKY
	FOW	CLEVELAND/LONG	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY MT	NC
	YZF	FAYVLLE/CFARS	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	DOU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	AXH	BLACKSTONE	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD KNB	VA
	FMD	TYSONS CORNER	VA
	ULB	MCMECHEN	WV
6.325/6.925	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVILLE	VA
	GJG	DANVILLE(DCC)	VA
	OGY	PRINCETON/PIPEST	WV
6.34 /6.94	SN	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO/WANCHESE	NC
	ZAS	MT AIRY-RTTY	NC
	IOO	GREENVILLE	SC
	CKB	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	QET	ROANOKE	VA
	CSW	NEW MARTINSVILLE	WV
	VKB	SUMMERSVILLE	WV
	JN	WEIRTON	WV
7.54 /6.94	CSW	NEW MARTINSVLLE	WV
6.355/6.955	KIN	PERRY	GA
	EFL	YNG HRS/RCKY TP	GA
	ULA	ROCKINGHAM	NC
	MZ	ONEIDA PEAK/BLF	VA
6.37 /6.97	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JQ	SMITHFIELD	NC
	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS MT	TN
	CPJ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	DRV	LOGAN/WARD RK MT	WV
	CRW	PARKERSBURG	WV
6.385/6.985	I	AUGUSTA	GA
	TOV	PRESTON	GA
	UUB	ST. MARYS	GA
	OGB	ALBEMARLE	NC
	ROZ	OLD FORT	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR MT	VA
6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	WAU	ELKHORN CITY	EKY
	LZQ	HINESVILLE	GA
	DXZ	LANETT(AL)	GA
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL MT	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	FOW	CLEVELAND/LONG	GA
	MST	WARNER ROBINS	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	RHV	HARRIMAN	TN
	K	NASHVILLE	TN
	LNT	FREDRICKSBURG	VA
6.43 /7.03	YTZ	ROCK HILL	SC
	LGH	LEXINGTON	TN
	OOR	MILLINGTON/NB	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRPORT	GA
	GG	GREENSBORO	NC
	DTS	ROANOKE RAPIDS	NC
	FOF	BARNWELL	SC
	JYR	MYRTLE BEACH, N	SC
	NIQ	FAYETTEVILLE	TN
	ZJM	MEMPHIS	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO	VA
	IT	MULLENS/HRNDN MT	WV
	ECC	ST MARYS/BENS R	WV
6.445/7.045	FLR	FAYETTEVILLE	NC
	CNS	ROB/JOANNA BLD	NC
	YVM	ARLINGTON	VA
7.645/7.045	TYM	METTER	GA
	JRL	STATSVL/ASBRY MT	NC
	WA	RADFORD	VA
	WRN	STAUNTON/EL. KB	VA
	SBC	VIRGINIA BEACH	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	CQ	CHARLOTTE	NC
	MOQ	MEMPHIS	TN
	LBM	VOLENS	VA
	WL	PRINCETON	WV
7.66 /7.06	ICT	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER	SC
	LYF	GRNVLE/GRYSTN	TN
	QEB	SHELBYVILLE	TN
	ECM	CHESTERFLD CO	VA
	KNM	POINT PLEASANT	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBQ	BURLINGTON	NC
	KAC	KNOXVILLE	TN
	PNT	WAYNSBR/BEAR DEN	VA
7.69 /7.09	NDB	FLAT GAP	EKY
	CVE	ST SIMONS ISL	GA
	GDF	GREENVL/ESTN NC	NC
	AQY	ORANGEBURG	SC
	OXE	SPARTANBURG	SC
	BSA	SPARTA/BON AIR	TN
	VL	GALAX/BRRP MT	VA
7.705/7.105	YSB	ATLANTA	GA
	DEC	MARION/BEAR WLW	NC
	JCK	MONROE/UCARS	NC
	JBJ	BEDFORD	VA
	VNQ	MT STORM	WV
6.09 /7.11	ZLR	LOGAN	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	ACP	MAYODAN	NC
	EWL	ROCKY MOUNT	NC
	YGE	MYRTLE BEACH	SC
	DAZ	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	VNQ	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.735/7.135	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH MTN	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	PEARISBURG	VA
	HB	RICHMOND	VA
7.745/7.145	KNE	MT. STERLING	EKY
7.75 /7.15	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	BYK	CUMMING/SAWNEE	GA
	VLY	MORGANTON	NC
	ITL	RALEIGH	NC
	BJM	MONCKS CORNER	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN
	EAJ	OAK RIDGE	TN
	QKH	TAZEWELL	VA
	SVR	ST ALBANS/COAL	WV
7.765/7.165	TCU	DOUGLAS	GA
	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	LSP	BRISTOL/HLSTN MT	TN
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	SC	FT MILL/CAROWND	SC
	NAT	GOOSE CREEK	SC
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	DES	POLK CTY/OSWALD	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULASKI	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	D	STATESBORO	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KNOB	VA
	TC	CHARLESTON	WV

Continued On Next Page

PLEASE NOTE!

The letters column between the frequency and city indicate suffixes of the repeater callsign.

REPEATERS BY FREQUENCY CONTINUED

7.825/7.225	LVY	SUMMERVILLE	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	SDC	YORKTOWN	VA
7.84 /7.24	DII	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	ACP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	NIT	GALLATIN	TN
	APK	MEMPHIS	TN
	ARO	PETERSBURG	VA
	FQR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PINCK MT	NC
	SI	PETROS	TN
	TVS	ACCOMAC	VA
	DCX	GRUNDY/BIG A MT	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.87 /7.27	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	PJE	FORT PAYNE(AL)	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG MT	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	GX	GUM SPRING	VA
	SLI	CHARLESTON/HGTN	WV
7.885/7.285	BI	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC
	DCD	BROOKSVILLE	SC
	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
7.90 /7.30	HNM	ROME	GA
	HNM	SVR CRK/MT ALTO	GA
	HON	WARNER ROBINS	GA
	ATW	JACKSONVILLE	NC
	YJG	JEFFERSON	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	CHARLESTON	SC
	LWS	MT PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	ZR	LEXINGTON	VA
	TSC	WINCH/BLUEMONT	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	MFH	ALEXANDRIA	VA
	OHX	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVILLE/FT BRAGG	NC
	K	LENOIR/HIBRITN	NC
	KIO	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN
	AJS	NASHVILLE	TN
	POD	LEXNGTN/COLE MT	VA
	ZIP	WARSAW	VA
7.94 /7.34	UPC	ATLANTA/SWEAT MT	GA
7.945/7.345	IZD	LYNCH/BLACK MT	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVILLE	TN
	VR	WYTHE/SAND MTN	VA
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	V	BOONE/RICH MTN	NC
	Z	LUMBERTON	NC
	ZGW	SUMMERVILLE	SC
	OAK	KNXVL/CROSS MT	TN
	MMI	MEMPHIS	TN
	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	TQU	ATHENS	GA
	YN	BURNSVILLE	NC
	ROK	GREENVILLE	NC
	DMI	GEORGETOWN	SC
	LEO	GREENVILLE	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	NV	VIRGINIA BEACH	VA
	VNQ	GRAFTON	WV
	WMX	ST ALBANS	WV
7.99 /7.39	PDJ	JENKINS	EKY
	IMK	THOMASTON	GA
	PLY	CHARLOTTE	NC
	DBG	EDEN/STONEVILLE	NC
	MKL	SMITHFIELD	NC
	FEC	LEXINGTON/LIT MT	SC
	ZLA	DAYTON/RHEA CTY	TN
	SBX	GRAY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	JZN	PARKERSBURG	WV
6.19 /7.51	FZJ	MEMPHIS	TN
7.015/7.615	YGM	UNION CITY	TN
7.315/7.915	SPJ	FORSYTH	GA

220 MHZ

3.70 /PKET	GQX	SAWNEE MT/CUMMIN	GA
2.12 /3.72	PGA	LOUISA	EKY
2.30 /3.90	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	OK	ASHLAND	EKY
	UPC	ATLANTA/SWEAT MT	GA
	BVW	ASHVL/MT PISGAH	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
	ZJM	MEMPHS/FRAYSER	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	HJV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	ZIA	LOCUST	NC
	ARO	PETERSBURG	VA
2.42 /4.02	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.46 /4.06	UPC	BUCHANAN/HARALSO	GA
	N	EASLEY/SASFRS MT	SC
2.48 /4.08	UEX	NASHVILLE	TN
2.50 /4.10	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	UPC	ATLANTA/SWEAT MT	GA
	FEC	LITTLE MT	SC
	MEY	NASHVILLE	TN
2.54 /4.14	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS HD	SC
	SQS	FRANKLIN	TN
	YYW	WILLIAMSON	WV
2.56 /4.16	K	LENOIR/HIBRITN	NC
2.58 /4.18	TAG	HICKORY VALLEY	TN
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERWLW M	NC
2.66 /4.26	NP	MT. JULIET	TN
	OKH	TAZEWELL	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.72 /4.32	JBF	THOMASVILLE	GA
2.74 /4.34	UPC	CANTON	GA
	DFH	FRIES/SAND MTN	VA
2.76 /4.36	YTO	MARSHALL	NC
2.80 /4.40	ZC	CHARLT/MINT HL	NC
2.82 /4.42	GSM	NORTON/HIGH KB	VA
2.84 /4.44	OG	NASHVILLE	TN
2.86 /4.46	YON	KNOXVILLE	TN
2.90 /4.50	KSM	CANTON	GA
	BSB	KNOXVILLE	TN
2.94 /4.54	BVW	MT MITCHELL	NC
2.96 /4.56	DOC	ATLANTA	GA
	JEH	CONYERS	GA
2.98 /4.58	F	PIKEVILLE	EKY
3.00 /4.60	N	ASHEVILLE	NC
3.02 /4.62	ETG	PIKEVILLE	EKY
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALEM	NC
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
	KHP	TYSONS CORNER	VA
3.14 /4.74	FG	KINGSTON/LICK KB	WV
3.16 /4.76	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GIBSONVILLE	NC
	CCF	ALEXANDRIA	VA
3.24 /4.84	KVC	DALTON	GA
3.28 /4.88	BZJ	DALTON	GA
	RXG	SAURATOWN MT	NC
3.30 /4.90	QPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL MT	TN
3.34 /4.94	I	AUGUSTA	GA
	UPC	BUCHANAN/HARALSO	GA
	KBD	JACKSONVILLE(FL)	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	DBB	ROANOKE/POOR MTN	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
3.38 /4.98	CHP	FALLS CHURCH	VA

440 MHZ

9.45 /5.67	KEZ	LAWRENCEVILLE	GA
9.25 /1.25	KIP	ATLANTA	GA
	AZA	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	UMU	SUMTER	SC
	GGK	LEWISVILLE	NC
	WIN	NORFOLK	VA
	AAG	ALEXANDRIA	VA
	MM	ALBANY	GA
	NYR	SHELBY	NC
	ZOK	CHATT/SIGNAL MT	TN
7.00 /2.00	WAY	PICKENS/CSRS HD	SC
	BIW	MARION	VA
	CSG	WINCHESTER	VA
7.05 /2.05	DXZ	LANETTIA(L)	GA
	PML	MORGANTON	NC
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	ACP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.20 /2.20	BUY	JAMESON	TN
	DKM	BRIDGEPORT	WV
7.25 /2.25	HTI	COVINGTON	VA
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR MT	VA
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	HON	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.90 /2.90	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	ZJM	MEMPHIS	TN
8.05 /3.05	JVX	GOLDSBORO	NC
	PUB	MT JULIET	TN
8.10 /3.10	IZD	LYNCH/BLACK MT	EKY
	GGC	SAURATOWN MT	NC
	FHE	BUCKHANNON	WV
8.145/3.145	OCB	AUGUSTA	GA
8.20 /3.20	CLA	SWEAT MT	GA
	TAG	HICKORY VALLEY	TN
8.30 /3.30	KOI	WOODLEAF	NC
	KJH	GATLBG/COVE MT	TN
8.40 /3.40	DOR	MEMPHIS	TN
8.50 /3.50	LVH	CONYERS	GA
	POZ	GREENSBORO	NC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	LVH	ATLANTA/NE	GA
	XE	ROARING GAP	NC
8.60 /3.60	DWU	MT MITCHELL	NC
8.65 /3.65	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	EDS	ALAMO	TN
	WIC	FINCASTLE	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	K	NORTHWEST/SE VA	VA
8.85 /3.85	IDB	FRANKLIN	TN
8.875/3.875	LZO	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	ODX	LAWRENCEVILLE	GA
	JEQ	HICKORY	NC
	SDC	VIRGINIA BEACH	VA
	IT	MULLENS/HRNDN MT	WV
9.05 /4.05	POD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	AFTON MT	VA
7.075/4.075	DOC	ATLANTA	GA
8.10 /4.10	G	FAYETTEVILLE	TN
9.10 /4.10	KBD	JACKSONVILLE(FL)	GA
	WTX	DURHAM	NC
	YI	COLUMBIA	SC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	LDR	ATLANTA/BELL	GA
	NTM	NASHVILLE	TN
	POD	LEXNGTN/COLE MT	VA
	VA	SPRINGFIELD	VA
8.175/4.175	DOC	ATLANTA	GA
9.20 /4.20	OHN	COLUMBUS	GA
	LBM	DECATUR	GA
	NEX	MORRISTOWN	TN
	EZA	WAYNESBORO	VA
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	KNI	HENDSVL/BERWLW M	NC
	FUD	SMYRNA	TN
	TFZ	CHARLOTTESVILLE	VA
9.30 /4.30	DDS	FISHERVILLE	TN
	HXD	KNOXVILLE	TN
	BLD	WAYNESBORO	VA
9.325/4.325	MPW	SANDY SPRNGS/ATL	GA
8.35 /4.35	GGN	N. WILKESBORO	NC
9.35 /4.35	JF	TIFTON	GA
	DBB	BEDFD/APL ORCH	VA
9.40 /4.40	ZW	FAYETTEVILLE	NC
	EAJ	OAK RIDGE	TN
	FQJ	LOGAN/WARD RK	WV
9.425/4.425	ISI	ALTAVISTA	VA
9.45 /4.45	KEZ	LAWRENCEVILLE	GA
	KWP	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.475/4.475	IU	RINGGOLD	GA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
	QYU	HUNTINGTON	WV
9.55 /4.55	NEF	TYRONE	GA
	PCD	NASHVILLE	TN
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	HFH	ALEXANDRIA	VA
	OZT	ST ALBANS	WV
9.625/4.625	WQ	ATLANTA	GA
	MZ	BLUEFIELD	VA
9.65 /4.65	EXU	SALISBURY	NC
	KNU	WILLIAMSTON	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	AY	NASHVILLE	TN
9.70 /4.70	HHH	ELLIJAY	GA
	JEH	ROCKY MOUNT	NC
	BR	WILMINGTON	NC
	DRU	MT PLEASANT	SC
	GBI	KNOXVILLE	TN
	MMI	MEMPHIS	TN
	LG	MORGANTOWN	WV
9.735/4.735	TIW	DALTON	GA
9.75 /4.75	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON MT	TN
	JYF	TYSONS CORNER	VA
9.775/4.775	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH PK	NC
	APK	MEMPHIS	TN
	MIC	OILVILLE	VA
	FRV	LK KNOB/KINSTON	WV
	CUL	MORGANTOWN	WV
9.825/4.825	XD	STAUNTON	VA
9.85 /4.85	CO	CHARLOTTE	NC
	GMP	WILMINGTON	NC
	ARO	PETERSBURG	VA
9.875/4.875	THG	NASHVILLE	TN
9.90 /4.90	COS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS MT	SC
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	WXL	RALEIGH	NC
	KOQ	MEMPHIS	TN
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	COV	S. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA

Concludes At Bottom Of Next Page

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
ASHEBORO	KJ4AV	147.855	147.255	*	PAL
ASHEVILLE	WA4QCO	146.235	146.835	*	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	*	A
BENSON	AK4H	147.87	147.27	N	PA
BOONE/RICH MTN	KU4V	147.96	147.36	*	
BREVARD/RICH MTN	WB4CJS	147.735	147.135	*	A
BURGAW	W4DLH	146.34	146.94	N	EA
BURLINGTON	K4ITL	144.71	145.31	N	PL
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	
CHARLOTTE	W4BFB	144.63	145.23	N	
CHARLOTTE	W4BFB	144.69	145.29	N	A
CHARLOTTE	WA4AOS	144.75	145.35	N	O
CHARLOTTE	W4BFB	146.34	146.94	N	A
CHARLOTTE	W4CQ	146.46	147.06	N	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	N	R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
CONCORD/KANNAP.	K4CEB	146.055	146.655	*	PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	*	PA
DURHAM	WA4WTX	144.85	145.45	*	AL
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	O
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WA4FLR	146.445	147.045	*	CR
FAYVLLE/CFARS	WB4YZF	146.31	146.91	*	
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	*	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	*	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	N	A
GASTONIA	K4NOQ	146.205	146.805	*	PA
GIBSONVILLE	WD4FTB	144.69	145.29	*	A
GOLD HILL/GBO	N4AZM	144.65	145.25	N	A
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	WA4MSS	146.16	146.76	N	
GREENSBORO	W4GG	147.63	147.03	*	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35	*	L
GREENVILLE	K4ROK	147.975	147.375	*	
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	*	
HALIFAX	AA4SJ	146.07	146.67	N	A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	*	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	*	
HIGH POINT	N4XO	144.81	145.41	N	AO
HIGH POINT	N4LDK	146.40	147.00	*	LA
HIGH POINT	KB4BPV	147.435	146.835	*	PA
HIGH POINT	KJ4RT	147.765	147.165	*	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	*	AL
JACKSONVILLE	WD4FVO	146.40	147.00	*	PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
JEFFERSON	W4YJG	147.90	147.30	*	A
LARNBRG/SCOTLAND	K4QWK	146.025	146.625	*	
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEWISVILLE	N4GGK	144.61	145.21	N	PA
LEXINGTON	K4IZM	146.31	146.91	*	PA
LK NORMN/CLT	WB4KPF	147.615	147.015	N	
LUMBERTON	W4NHV	147.90	147.30	*	EA
LUMBERTON	WV4Z	147.96	147.36	*	
MACO	WA4LED	147.66	147.06	N	
MADISON	KA4YFF	146.295	146.895	N	
MAGGIE VALLEY	W4HCY	147.405	146.805	N	
MANTEO/WANCHESE	W4ACY	146.34	146.94	*	
MARION/BEAR WLW	KA4DEC	147.705	147.105	N	
MAYODAN	WA4ACP	147.72	147.12	N	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	KF4NJ	144.79	145.39	*	A
MONROE/UCARS	K4JCK	147.705	147.105	N	A
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	*	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	*	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	*	PA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	*	PA
NEW BERN	WD4JMS	146.01	146.61	*	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	WD4JWO	144.57	145.17	N	
OLD FORT	KA4ROZ	146.385	146.985	N	
OXFORD	N4EKK	144.57	145.17	N	PA
RALEIGH	N4BEA	144.67	145.27	N	PAL
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	*	
RALEIGH	K4BWC	146.13	146.73	*	PA
RALEIGH	K4ITL	146.28	146.88	*	L
RALEIGH	K4ITL	147.75	147.15	*	PA
RANDLEMAN/GBO	WB4GBI	144.55	145.15	*	
REIDSVILLE	K4YFT	146.25	146.85	N	
ROANOKE RAPIDS	K4ITL	144.71	145.31	*	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	N	
ROARING GAP	WB4PZA	146.22	146.82	*	
ROB/JOANNA BLD	WD4CNS	146.445	147.045	N	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	*	PA
SALISBURY	W4EXU	146.13	146.73	*	PA
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	W4RXG	144.51	145.11	*	R
SAURATOWN MT	WA4GIC	144.87	145.47	*	
SAURATOWN MT	N4LDK	146.19	146.79	*	PA
SHALLOTTE	K4PPD	144.69	145.29	*	
SHELBY	W4NYR	146.28	146.88	N	
SHELBY	W4NYR	147.945	147.345	N	PA
SMITHFIELD	KD4JQ	146.37	146.97	*	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	*	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	*	
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	*	

DISTRIBUTION OF REPEATERS BY FREQUENCY

	TVE	BRUNSWICK	GA
	GIC	SAURATOWN MT	NC
	OES	NASHVILLE	TN
6.65 /6.65	DBB	ROANOKE	VA
3.50 /8.50	LBH	CONYERS	GA
3.80 /8.80	HNK	SUMMERVILLE	SC
4.225/9.225	JCE	MANASSAS	VA
4.40 /9.40	KOG	MEMPHIS	TN
4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FOR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA
2.01 /ACON	DRL	FISHERVILLE	TN

920 MHZ

8.00 /0.00	PAR	LEXINGTON	NC
9.00 /1.00	PAR	LEXINGTON	NC
1.40 /1.40	DOC	ATLANTA	GA

10 METERS

9.60 /9.60	TFZ	CHARLOTTESVILLE	VA
	CTF	NEWPORT NEWS	VA
9.52 /9.62	LVH	CONYERS	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAYSER	TN
	MXT	RICHMOND	VA
9.54 /9.64	KBD	JACKSONVILLE(FL)	GA
9.56 /9.66	BZU	DONELSON	TN
	IS	SANDY SPR/ATL	GA
	ACP	EDEN	NC
9.58 /9.68	MM	ALBANY	GA
	DN	STERLING	VA

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVILLE	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVILLE	VA
2.76 /2.525	AAL	KNOXVILLE	TN
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	YAO	HENDERSONVILLE	NC
	GRW	NEWPORT	NC
	LRD	CHATTANOOGA	TN
	KOG	MEMPHIS	TN
	LSP	ABINGTON	VA
	POD	LEXNGTN/COLE MT	VA
	LSP	NORTN/HIGH KB	VA
2.03 /3.03	DTS	ROANOKE RAPIDS	NC
2.05 /3.05	UPC	ATLANTA/SWEAT MT	GA
	HSN	COPE	SC
2.07 /3.07	ODA	LINEVILLE(AL)	GA
	DAP	ROCKY MOUNT	NC
	NNN	LOUISA	VA
2.09 /3.09	MPW	SANDY SPR/ATL	GA
2.13 /3.13	KIN	PERRY	GA
	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC)	VA
2.15 /3.15	GOH	COLUMBIA	SC
	YON	KNOXVILLE	TN
	IOB	KNXVL/ENG MT	TN
	DBB	BEDFORD/THAX MT	VA
2.17 /3.17	RET	ST MARYS/BENS R	WV
2.19 /3.19	UCE	COOKEVILLE	TN
2.23 /3.23	ZKL	GUTHRIE	EKY
2.09 /3.69	SVR	HERNSHAW/BEE MT	WV
2.12 /3.72	CDE	RAND	WV
	NNE	GUTHRIE (TN/KY)	TN
2.25 /3.25	FJ	RIDGEWAY	VA
	DBB	ROANOKE	VA
2.27 /3.27	DRL	EADS	TN
2.33 /3.33	EHV	SAPPHIRE	NC
2.35 /3.35	AVP	CARY	NC
	GBI	KNOXVILLE	TN
2.41 /3.41	YXY	PICKENS	SC
2.43 /3.43	B	RICHMOND	VA
2.45 /3.45	MPM	FLAT GAP	EKY
	KWP	GALLATIN	TN
2.47 /3.47	MDW	HICKORY	NC
2.55 /3.55	JEH	CONYERS	GA
2.03 /3.63	JKA	ST ALBANS/COAL	WV
2.06 /3.66	JYR	DANVILLE/MADSN	WV
2.67 /3.67	WRS	STATESVILLE	NC

The By-City Index Appears On Following Pages

MORE NORTH CAROLINA REPEATERS

TRENTON	K4ITL	144.61	145.21	★	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	★	
WADESBORO	WA4IAT	146.235	146.835	N	
WASHINGTON	WA4TEP	147.945	147.345	N	
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865	★	A
WAYNESVILLE	N4SM	147.87	147.27	★	PA
WHITEVILLE	K4MSD	147.81	147.21	★	
WILLIAMSTON	KA4KNU	144.81	145.41	★	PA
WILMINGTON	W4VNK	146.13	146.73	★	PA
WILMINGTON	K4GMP	146.22	146.82	★	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	★	
WINSTON-SALEM	WA4GIC	146.04	146.64	★	AL

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	N	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	★	
CHARLT/MINT HL	KE4ZC	222.80	224.40	N	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	★	
GIBSONVILLE	WB4IKY	223.22	224.82	★	A
GOLDSBORO	WB3JVX	223.36	224.96	★	EAC
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	★	
HICKORY	WA4MDW	222.42	224.02	★	
HIGH POINT	K4AZA	222.32	223.92	★	LA
HILLSBOROUGH	WA4WTX	222.34	223.94	★	L
LENOIR/HIBRITN	KN4K	222.56	224.16	N	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	N	
LOCUST	WA4ZIA	222.40	224.00	N	PAL
LUMBERTON	WB4WOR	222.54	224.14	N	
MARSHALL	KA4YTO	222.76	224.36	N	
MORGANTON	WB4PML	223.20	224.80	★	
MT MITCHELL	WA4BVW	222.94	224.54	★	
MT. TOXAWAY	K4MSK	223.12	224.72	N	
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	★	
SALISBURY	W4EXU	223.16	224.76	★	
SAURATOWN MT	W4RXG	223.10	224.70	★	R
SAURATOWN MT	W4RXG	223.28	224.88	★	
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223.04	224.64	★	PA

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	N	
CHARLOTTE	W4CQ	449.85	444.85	N	
DURHAM	WA4WTX	449.10	444.10	★	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05	★	EA
GREENSBORO	WD4PQZ	448.50	443.50	★	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	★	
HICKORY	K4JEQ	449.00	444.00	★	
HIGH POINT	K4AZA	447.90	442.90	★	L
HIGH POINT	N4LXW	448.70	443.70	N	
LEWISVILLE	N4GGK	439.25	426.25	N	V
LOCUST	WA4LBT	448.70	443.70	★	L
MORGANTON	WB4PML	447.05	442.05	★	
MT AIRY/FSH PK	KF4UY	449.80	444.80	★	
MT MITCHELL	N4DWU	448.60	443.60	★	
N. WILKESBORO	N4GGN	448.35	444.35	N	
NEW BERN	WA4VBC	449.90	444.90	★	
RALEIGH	N4BEA	447.15	442.15	N	L
RALEIGH	WA1WXL	449.95	444.95	★	C
ROARING GAP	KC4XE	448.55	443.55	★	L
ROCKY MOUNT	N4JEH	449.70	444.70	N	
SALISBURY	W4EXU	449.65	444.65	★	EA
SAURATOWN MT	K4AZA	439.25	421.25	★	
SAURATOWN MT	N4GGC	448.10	443.10	★	
SAURATOWN MT	WA4GIC	449.975	444.975	★	C
SHELBY	W4NYR	439.25	427.25	N	VPA
WILLIAMSTON	KA4KNU	449.65	444.65	N	
WILMINGTON	KB4BR	449.70	444.70	N	
WILMINGTON	K4GMP	449.85	444.85	★	C
WILSON	NE4J	449.90	444.90	★	
WOODLEAF	KB4KQI	448.30	443.30	★	RB

920 MHZ

LEXINGTON	W4PAR	908.00	920.00	★	P
LEXINGTON	W4PAR	909.00	921.00	★	P

10 METERS

EDEN	WA4ACP	29.56	29.66	N	
WILKESBORO	KC4XE	29.52	29.62	★	L

6 METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	★	
HIGH POINT	K4AZA	52.525	52.525	N	RB
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	WA4DTS	52.03	53.03	N	
ROCKY MOUNT	KA4DAP	52.07	53.07	N	P
SAPPHIRE	W4EHV	52.33	53.33	N	C
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

CHARLOTTE	W4BFB-1	145.01	N	K
CHERRY MTN	WB4RDL-1	145.01	N	K
COLFAX	KE4TH-1	145.07	N	K
CONCORD	K4CEB-1	145.05	★	K
GOLDSBORO	K4CYP-1	145.01	N	K
GREENVILLE	WD4JPQ-1	145.01	★	K
RALEIGH	K4ITL-1	145.01	N	K
RALEIGH	K4BWC-1	145.01	★	K
SAURATOWN MT	W4RXG-1	145.01	★	K
SPIVEY MTN	KB4OKW-1	145.01	N	K

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	★	PA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	★	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	★	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	★	
BEDFORD	WB4JBJ	147.705	147.105	N	LRPA
BLACKSBURG	AB9I	146.115	146.715	N	
BLACKSTONE	W4AXH	146.31	146.91	★	P
BLAND	N4AZJ	144.75	145.35	★	PA
BLUEFIELD	W8MOP	144.89	145.49	N	A
BRISTOL	WD4CYZ	146.28	146.88	★	
BRUMLEY MT	K4LSP	146.01	146.61	N	
CASTLEWOOD	KA4JNC	144.65	145.25	N	C
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	★	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	★	
CHESAPEAKE	K4NDH	144.69	145.29	N	EA
CHESAPEAKE	N4GSP	146.01	146.61	★	
CHESAPEAKE	N4SD	146.19	146.79	★	A
CHESTERFIELD	KA4CBB	147.96	147.36	★	
CHESTERFLD CO	WA4ECM	147.66	147.06	★	A
COVINGTON	WA4HTI	146.205	146.805	N	
CREWE	K4ARO	144.55	145.15	★	
CULPEPPER	N4FAF	147.72	147.12	M	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	N	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	★	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQI	144.73	145.33	★	
FINCASTLE	W4WIC	146.04	146.64	★	
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	M	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	★	A
GALAX/LKOUT MT	N4VL	144.53	145.13	★	EA
GLOUCESTER	KA2IMI	144.77	145.37	★	
GRUNDY	K4HWQ	147.92	147.32	N	ANB

CVRA-SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE VIRGINIA REPEATERS

GRUNDY/BIG A MT	WD4DCX	147.855	147.255	N	
GUM SPRING	KB4GX	147.87	147.27	N	
HAMPTON	K4DHO	146.13	146.73	*	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	*	
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	*	
KILMARNOCK	W2MS	144.61	145.21	N	A
LEBANON	NZ4B	144.61	145.21	N	C
LEXINGTON	KI4ZR	146.07	146.67	N	A
LEXINGTON	KI4ZR	147.90	147.30	*	
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	N	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	*	PA
MARION	N4BIW	146.04	146.64	*	L
MARTINSVILLE	AB4L	147.885	147.285	*	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	O
NEW MARKET	K4AVW	146.025	146.625	*	
NEWPORT NEWS	WA4OHX	144.89	145.49	N	PA
NEWPORT NEWS	WB4CTF	147.765	147.165	*	PA
NORFOLK	NE4D	146.10	146.70	N	
ONEIDA PEAK/BLF	KD8MZ	146.355	146.955	*	PAL
PEARISBURG	N4AZJ	147.735	147.135	*	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.84	147.24	*	TPA
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	N	PA
PORTSMOUTH	N4MG	146.25	146.85	*	
RADFORD	KC4WA	147.645	147.045	*	
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	NB4B	144.59	145.19	*	
RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	*	PA
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	
SALEM	W4PDL	146.28	146.88	N	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WA4QKH	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.295	146.895	*	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	*	
VOLENS	WD4LBM	146.46	147.06	*	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	*	
WAYNESBORO	W4BLD	147.63	147.03	*	
WAYNSBR/BEAR DEN	W4PNT	147.675	147.075	*	L
WILLIAMSBURG	W4NTG	146.07	146.67	*	
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHE/SAND MTN	KC4VR	147.945	147.345	*	AL
WYTHEVILLE	WA4EMS	146.175	146.775	*	
YORKTOWN	K4UMI	144.63	145.23	N	P
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
DAN/WHT OAK	K4OAK	223.16	224.76	N	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/SAND MTN	WA4DFH	222.74	224.34	*	
NORTON/HIGH KB	WD4GSM	222.82	224.42	N	C
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	*	
TAZEWELL	WA4QKH	222.66	224.26	N	P
TYSONS CORNER	WD4KHP	223.12	224.72	N	PL

440 MHZ

AFTON MT	W4BLD	449.05	444.05	*	
ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
BLUEFIELD	KD8MZ	449.625	444.625	*	LPA
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	N4EVG	448.90	443.90	*	A
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75	*	
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
MARION	N4BIW	447.00	442.00	*	PL
NORFOLK	W4WIN	439.25	426.25	N	V
NORTHWEST/SE VA	KR4K	448.80	443.80	N	
OILVILLE	KB4MIC	449.80	444.80	N	P
PETERSBURG	K4ARO	449.85	444.85	*	
RICHMOND	K4ARO	449.65	444.65	*	
ROANOKE	WB4DBB	446.65	446.65	*	RBL
ROANOKE	N4HON	447.70	442.70	N	
ROANOKE/POOR MT	W4CA	447.50	442.50	*	
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	W4XD	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WD4SDC	449.00	444.00	N	P
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	WA4EZA	449.20	444.20	N	
WAYNESBORO	W4BLD	449.30	444.30	*	TPA
WILLIAMSBURG	W4NTG	448.95	443.95	M	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
NEWPORT NEWS	WB4CTF	29.60	29.60	*	RB
RICHMOND	N4MXT	29.52	29.62	N	P
STERLING	KD4DN	29.58	29.68	M	P

6 METERS

ABINGTON	K4LSP	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	N	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	N	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LOUISA	KA4NNN	52.07	53.07	N	
NORTN/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	*	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L

PACKET

ACCOMAC	KJ4AG-1	145.01	*	K
ACCOMAC	KJ4AG-2	145.03	*	K
BEAR DEN MT	W4BLD-1	145.01	*	K
BLUEFIELD	KD8MZ	145.01	*	K
CHARLOTTESVILLE	WA4TFZ-2	145.01	N	K
COVINGTON	WA4PGI-1	145.01	N	K
FORK MTN	WA4FRV-3	145.01	N	
FREDERICKSBURG	KB4OB-1	145.01	M	K
GARRISONVILLE	AA4PB-1	145.01	N	K
HAMPTON	K4UMI-1	145.01	N	K
HAMPTON	K4UMI-5	145.01	N	K
LYNCHBURG	K4LKQ-1	145.01	N	K
MIDDLEBURG	WA4TSC-1	145.01	N	K
ONEIDA	WB4BBF-2	145.01	*	K
PETERSBURG	K4ARO-2	145.05	*	K
RICHMOND	K4ARO-1	145.01	*	K
ROANOKE	N4FHL-1	145.01	N	K
STEPHENS CITY	W3CSG	145.01	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	*	K
WASHINGTON, D.C.	WB4JFI-5	145.01	N	K
WOODBRIDGE	WB4FQR-4	145.01	N	K
WOODBRIDGE	KA4USE-1	145.07	N	K
WYTHE/SAND MTN	KC4VR-1	145.01	*	K

This CVRA-SERA Official Repeater Index Is Correct As of April 15, 1987

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	N	
ANDERSON	N4SZ	146.37	146.97	★	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	★	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	★	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	★	
BROOKSVILLE	W4DCD	147.885	147.285	N	A
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	★	PA
CHARLESTON	K4LWS	147.90	147.30	N	A
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
CHESTER	KB4FJX	146.025	146.625	N	P
COLUMBIA	WB4QJF	144.57	145.17	N	
COLUMBIA	N4HWU	144.83	145.43	★	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	WA4KIO	147.93	147.33	N	
DILLON/PEE DEE	NN4N	146.145	146.745	★	EA
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	★	PA
FT JACKSON	WB4OCB	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18	N	
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.975	147.375	★	T
GREENWOOD	KB4YF	147.765	147.165	★	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	★	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	★	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47	N	
LAKE MARION	W4DTW	147.825	147.225	★	A
LANCASTER	W4PAX	146.10	146.70	★	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON/LIT MT	KA4FEC	147.99	147.39	★	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	N	PA
MT PLEASANT	K4LWS	147.90	147.30	N	PA
MYRTLE BEACH	K4IQM	146.01	146.61	N	PA
MYRTLE BEACH	WA4YGE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73	★	
NEWBERRY	KB4CO	146.085	146.685	N	
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00	★	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	★	A
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925	N	PA
ROCK HILL	K4YTZ	146.43	147.03	★	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WD4BJY	146.13	146.73	★	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	N	PA
SUMMERVILLE	K7ZGW	147.96	147.36	N	EAP
SUMTER	WS4P	146.04	146.64	★	
SUMTER	WA4UMU	147.615	147.015	★	EA
SUMTER	W4VFR	147.66	147.06	★	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	★	RB
EASLEY/SASFRS MT	AJ4N	222.46	224.06	N	
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	★	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	★	PA

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	N	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
COLUMBIA	KC4YI	449.10	444.10	★	
LEXINGTON	N4GUP	439.25	421.25	★	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PICKENS/CSRS HD	WA6WAY	447.00	442.00	★	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	443.80	448.80	N	NB
SUMTER	WA4UMU	439.25	423.25	★	V

6 METERS

COLUMBIA	N4GQH	52.15	53.15	N	
COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	★	

PACKET

ANDERSON	W4FX-1	145.01	★	K
CHARLESTON	N4LYF-1	145.01	N	
COLUMBIA	N4EOY-1	145.01	★	K
COLUMBIA	N4HWU-1	145.03	★	K
CONWAY	WA4TKM-1	145.01	N	K
FLORENCE	W4ULH-1	145.01	N	K
LANCASTER	K4WJR-1	145.01	N	K
SUMTER	WS4P-1	145.01	★	K

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	★	
BRISTOL	K4ILW	146.07	146.67	★	A
BRISTOL	WD4CYZ	146.28	146.88	★	
BRISTOL/HLSTN MT	K4LSP	147.765	147.165	N	
BROWNSVILLE	WA4ABU	146.055	146.655	★	
CHATT/SIGNAL MT	KW4Z	146.055	146.655	★	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	★	
CHATTANOOGA	KB4TZ	144.79	145.39	★	A
CHATTANOOGA	K4CMY	146.01	146.61	★	
CHATTANOOGA	W4DSK	146.19	146.79	★	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	★	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	★	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
ELZ/JC/HLST MT	WB4SQC	144.69	145.29	N	A
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	N	A
FRANKLIN	WB4HCK	144.55	145.15	N	RB
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GRAY	WD4SBX	147.99	147.39	N	
GREENEVILLE	K4EPC	144.79	145.39	★	
GREENEVILLE	WB4TUO	144.81	145.41	★	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	★	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
GUTHRIE (TN/KY)	KA4NNA	146.205	146.805	N	
HARRIMAN	WA4RHV	147.615	147.015	N	C
HENDERSONVILLE	WB4WZK	144.67	145.27	★	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	★	
HUMBOLDT	NQ4Y	144.75	145.35	N	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JAMESTOWN	KE4JE	144.55	145.15	N	
JASPER	KD4XX	144.59	145.19	N	
JOHNSON CITY	KE4FH	146.19	146.79	N	
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	★	PA
KNOXVILLE	WB4JSD	144.51	145.11	N	R
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	N4GRC	144.77	145.37	★	EA
KNOXVILLE	N4CKB	144.87	145.47	★	
KNOXVILLE	N4CKB	146.34	146.94	★	

CVRA-SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE TENNESSEE REPEATERS

KNOXVILLE	N4KAC	147.675	147.075	*	A
KNOXVILLE	W4BBB	147.90	147.30	*	
KNOXVL/SHARPS RG	WA4TEM	144.73	145.33	*	A
KNXVL/CROSS MT	KA4OAK	147.96	147.36	N	
KNXVL/ENG MT	WB4IOB	146.13	146.73	*	
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WB4DOR	144.59	145.19	*	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KE4V	144.57	145.17	*	
LENOIR CITY	KB4PIO	146.085	146.685	N	C
LEXINGTON	WB4LGH	146.43	147.03	N	
MANCHESTER	W4UOT	146.10	146.70	*	A
MARTIN	WA4ZQX	146.025	146.625	*	
MCMINNVILLE	WA4CPJ	146.37	146.97	N	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MEDINA	K4BEZ	146.37	146.97	*	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	N	
MEMPHIS	K4FZJ	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MT JULIET	WA4CBF	144.77	145.37	N	
MURFREESBORO	KJ4RA	144.63	145.23	N	
NASHVILLE	N4AJS	144.65	145.25	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	W4PQP	146.16	146.76	*	
NASHVILLE	W4SQE	146.19	146.79	*	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	*	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	N	L
OAK RIDGE	K4EAJ	147.75	147.15	N	R
PARIS	K4KLX	147.96	147.36	N	A
PETROS	KJ4SI	147.855	147.255	N	C
PIKEVILLE	K4MJM	147.885	147.285	*	
POLK CTY/OSWALD	WD4DES	147.78	147.18	*	
PULASKI/MUS MT	W4JVO	146.175	146.775	*	EA
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	N	
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHORT MTN	W4YXA	146.31	146.91	*	
SMYRNA	WB4LHO	144.57	145.17	N	PA
SPARTA/BON AIR	W4BSA	147.69	147.09	N	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KF4VM	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	N	
UNION CITY	WA4YGM	147.015	147.615	N	A NB
WAVERLY	NO4Q	146.085	146.685	*	
WINCHESTER	WB4UEW	146.22	146.82	*	

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	*	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	*	
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90	N	
HICKORY VALLEY	KA5TAG	222.58	224.18	N	
KNOXVILLE	WA4YON	222.86	224.46	*	
KNOXVILLE	W4BBB	222.90	224.50	*	
MEMPHS/FRAYSER	W4ZJM	222.34	223.94	N	LO
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4MEY	222.52	224.12	N	C
NASHVILLE	N4AWB	222.62	224.22	N	
NASHVILLE	KI4OG	222.84	224.44	*	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25	N	V
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	*	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	444.10	N	
FISHERVILLE	N4DRL	432.01	BEACON	N	O
FISHERVILLE	N4DDS	449.30	444.30	N	O
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4KWP	449.45	444.45	*	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	*	
HICKORY VALLEY	KA5TAG	448.20	443.20	N	C
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	N	A
JASPER	KD4XX	447.05	442.05	N	C
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4NK	449.60	444.60	*	
KNOXVILLE	WB4GBI	449.70	444.70	*	
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	WB4MMI	449.70	444.70	N	T
MEMPHIS	WD4APK	449.80	444.80	N	
MEMPHIS	WB4MMI	449.90	444.90	N	L
MEMPHIS	WB4KQQ	449.95	444.95	N	C
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MT JULIET	WA4PUB	448.05	443.05	N	
NASHVILLE	KI4OG	449.05	444.05	*	T
NASHVILLE	WB4NTM	449.15	444.15	N	C
NASHVILLE	WA4PCD	449.55	444.55	N	
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	N	L
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
SMYRNA	N4FUD	449.25	444.25	N	

10 METERS

DONELSON	WA4BZU	29.54	29.64	N	C
KNXVL/ENG MT	WB4IOB	29.52	29.62	*	C
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	C
EADS	N4DRL	52.27	53.27	N	C
GALLATIN	WD4KWP	52.45	53.45	*	
GUTHRIE (TN/KY)	KA4NNE	52.23	53.23	N	
KNOXVILLE	WA4YON	52.15	53.15	*	
KNOXVILLE	WB4GBI	52.35	53.35	*	
KNOXVILLE	K4AAL	52.76	52.525	N	NB
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	A
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

ELIZABETHTON	WB4BFS-2	145.01	N	K
GALLTN/MUSIC MT	W4PTZ-1	145.01	*	K
KNOXVILLE	KB4NK-1	145.01	N	K
KNOXVL/CROSS MT	WA4YON-1	145.01	N	K
MEMPHIS	WB4MQD-1	145.33	N	K
PIKEVILLE	K4MJM-1	145.01	*	K
SHORT MT	W4YXA-1	145.01	*	K

SEARA · SOUTHEASTERN REPEATER ASSOCIATION · MEMBER

Listings For

Virginia
West Virginia
North Carolina
South Carolina
Tennessee
Eastern Kentucky
Georgia

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ADEL	KF4JF	144.63	145.23	N	
ALBANY	W4MM	144.55	145.15	N	L
ALBANY	W4MM	146.10	146.70	N	
ALBANY	W4MM	146.13	146.73	N	
ALBANY	W4MM	146.22	146.82	N	
ALBANY	W4MM	147.72	147.12	N	K
ALBANY	WB4TFW	147.75	147.15	*	
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	KF4BI	147.885	147.285	*	
ATHENS	WA4BKF	146.145	146.745	N	A
ATHENS	K4TQU	147.975	147.375	N	
ATLANTA	K4DRQ	144.69	145.29	*	
ATLANTA	W4BOC	144.85	145.45	*	
ATLANTA	W4DOC	146.22	146.82	N	PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	N	PA
ATLANTA	K4YSB	147.705	147.105	N	
ATLANTA	K4SMX	147.795	147.195	*	T
ATLANTA	WD4KDT	147.855	147.255	*	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	N	
ATLANTA/BELL	W4PME	144.81	145.41	*	
ATLANTA/GA TECH	W4AQL	144.55	145.15	N	PA
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/STONE MT	W4BOC	146.16	146.76	*	
ATLANTA/SWEAT MT	WB4UPC	144.83	145.43	N	A
ATLANTA/SWEAT MT	WB4UPC	147.94	147.34	N	NB
AUGUSTA	W4TUN	144.51	145.11	*	A
AUGUSTA	N4JA	144.89	145.49	*	
AUGUSTA	W4LWT	146.04	146.64	*	
AUGUSTA	AA4UA	146.235	146.835	*	A
AUGUSTA	KT4N	146.34	146.94	*	
AUGUSTA	NA4I	146.385	146.985	*	PA
AUGUSTA	NI4S	147.72	147.12	*	PA
AUGUSTA	N4BMA	147.78	147.18	*	RPA
BALDWIN	WD4NHW	147.78	147.18	*	A
BIRMINGHAM(AL)	N4IQT	144.59	145.19	*	
BRUNSWICK	K4TVE	146.13	146.73	N	
CARROLLTON	W4FWD	146.04	146.64	N	A
CEDARTOWN	W4CMA	147.72	147.12	*	PA
CLEVELAND/LONG	K4FOW	146.31	146.91	N	
CLEVELAND/LONG	K4FOW	147.615	147.015	N	
COLUMBUS	KA4CEK	144.71	145.31	*	
COLUMBUS	W4FIZ	146.01	146.61	N	
COLUMBUS	N4AGO	146.28	146.88	N	
COLUMBUS-RTTY	K4ACH	144.77	145.37	N	R
CONYERS	WB4JEH	146.01	146.61	*	
CONYERS	KE4SG	147.81	147.21	N	PA
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.925	146.325	N	NB
CUMMING/SAWNEE	K4BYK	147.75	147.15	*	PAL
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	KE4UJ	144.63	145.23	*	
DALTON	N4BZJ	144.65	145.25	*	
DALTON	N4BZJ	147.735	147.135	*	
DALTON	KE4LN	147.81	147.21	*	
DECATUR	W4VTA	144.51	145.11	*	EA
DECATUR	WB4CPL	144.75	145.35	*	
DOUGLAS	KB4TCU	147.765	147.165	N	
DOUGLASVILLE	KB4EO	147.96	147.36	N	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY	W4HHH	146.985	146.385	*	NB
FAYETTEVILLE	K4UWN	146.085	146.685	N	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	W4SPJ	147.315	147.915	N	
FORT PAYNE(AL)	WA4PJE	147.87	147.27	*	A
GAINESVILLE	W4NSO	146.07	146.67	*	A
GRIFFIN	K4HYB	144.79	145.39	*	PA
GRIFFIN	K4HYB	146.31	146.91	*	
HAMPTON	AC4P	146.235	146.835	N	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	WA7LZQ	147.60	147.00	N	P
IRWINTON	WB4NFG	147.84	147.24	N	
JACKSONVILLE(FL)	N4KBD	144.85	145.45	N	PA
JASPER	KB4IZF	144.77	145.37	*	
JASPER	W4OOM	146.10	146.70	*	A
JASPER(AL)	WB4ACN	146.30	146.90	*	
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	*	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85	*	EA
LAGRANGE	WB4BXO	147.93	147.33	*	EA
LANETT(AL)	K4DXZ	147.60	147.00	*	
LEEDS(AL)	N4IQT	146.08	146.68	*	
LINEVILLE(AL)	WB4VBA	144.83	145.43	*	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	N	NB
MACON	K4ICT	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	N	
MARIETTA	WA4QPL	144.89	145.49	*	PA
MARIETTA	N4NFP	146.055	146.655	*	EA
MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	N	
METTER	W4TYM	147.645	147.045	N	
MILLEDGEVILLE	KF4LI	144.55	145.15	N	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	146.355	146.955	*	A
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	*	
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROME	W4VO	146.34	146.94	*	EA
ROME	K4HNM	147.90	147.30	N	
ROSSVILLE	KC4EV	144.75	145.35	N	
ROSWELL	N4CLA	147.66	147.06	*	
SAVANNAH	K4NLX	144.63	145.23	N	
SAVANNAH	K4NLX	146.10	146.70	N	PA
SAVANNAH	W4HBB	146.28	146.88	N	
SAVANNAH	W4HBB	146.37	146.97	N	A
SNELLVILLE	WD4JXR	147.675	147.075	*	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
ST. MARYS	KA4UUB	146.385	146.985	N	P
STATESBORO	NC4D	147.81	147.21	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	
SWEAT MTN	N4CLA	144.87	145.47	*	
SWEAT MTN	KD4NC	146.13	146.73	*	K
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
TOCCOA	KA4DIP	147.93	147.33	*	PA
TYRONE	W4PSZ	144.61	145.21	*	PA
UNION CITY	WA4UPE	146.025	146.625	N	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	*	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	N	L
WARNER ROBINS	WB4BDP	146.01	146.61	N	
WARNER ROBINS	W4HON	146.25	146.85	*	A
WARNER ROBINS	W4MST	147.615	147.015	*	
WARNER ROBINS	W4HON	147.90	147.30	*	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	
YNG HRS/RCKY TP	N4EFL	146.355	146.955	N	

220 MHZ

ATLANTA	W4DOC	222.96	224.56	N	
ATLANTA	KK4C	223.22	224.82	N	PAL
ATLANTA/SWEAT MT	WB4UPC	222.34	223.94	N	L
ATLANTA/SWEAT MT	WB4UPC	222.52	224.12	N	A
AUGUSTA	NA4I	223.34	224.94	N	P
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	N	L
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	N	
CANTON	WB4UPC	222.74	224.34	N	L
CANTON	N4KSM	222.90	224.50	N	
CONYERS	WB4JEH	222.96	224.56	*	
DALTON	N4KVC	223.24	224.84	*	
DALTON	N4BZJ	223.28	224.88	N	P
JACKSONVILLE(FL)	N4KBD	223.34	224.94	N	
MARIETTA	WA4QPL	223.30	224.90	*	
ROSSVILLE	KC4EV	223.34	224.94	N	
THOMASVILLE	N4JBF	222.72	224.32	*	

1200 MHZ

ATLANTA	W4DOC	1271.40	1291.40	N	

CVRA-SERA REPEATER SYMBOLS

*	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE GEORGIA REPEATERS

440 MHZ

ALBANY	W4MM	439.25	427.25	N	
ALBANY	W4MM	449.50	444.50	N	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825	N	NB
ATLANTA	W4DOC	447.075	444.075	N	
ATLANTA	W4DOC	448.175	444.175	N	
ATLANTA	WB4UWL	449.50	444.50	N	
ATLANTA	N4WQ	449.625	444.625	N	A
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	K4LDR	449.15	444.15	*	
ATLANTA/NE	WB8LVH	448.55	443.55	*	
ATLANTA/STONE MT	W4BOC	449.25	444.25	*	
AUGUSTA	WB4OCB	448.145	443.145	N	
AUGUSTA	NA4I	449.95	444.95	*	
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00	*	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB8LBH	443.50	448.50	N	
CONYERS	WB4JEH	447.55	442.55	*	
CONYERS	WB8LVH	448.50	443.50	*	
DALTON	WA4TIW	449.735	444.735	*	NB
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY	W4HHH	449.70	444.70	*	
GRIFFIN	WB4GWA	448.90	443.90	*	PA
JACKSONVILLE(FL)	N4KBD	449.10	444.10	N	
LANETT(AL)	K4DXZ	447.05	442.05	*	
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
LAWRENCEVILLE	WD4KEZ	449.45	145.67	N	RB
LAWRENCEVILLE	WD4KEZ	449.45	444.45	N	L
MACON	WB4OLL	444.90	449.90	N	NB
MARIETTA	K4POD	449.05	444.05	N	
PERRY	KB4KIN	449.95	444.95	*	
RINGGOLD	KJ4IU	449.475	444.475	*	
SANDY SPRNGS/ATL	WA4MPW	449.325	444.325	*	C
SWEAT MT	N4CLA	448.20	443.20	*	K
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	*	

10 METERS

JACKSONVILLE(FL)	N4KBD	29.54	29.64	N	
SANDY SPR/ATL	KJ4IS	29.56	29.66	*	C

6 METERS

ATLANTA/SWEAT MT	WB4UPC	52.05	53.05	N	
CONYERS	WB4JEH	52.55	53.55	*	
LINEVILLE(AL)	WB4ODA	52.07	53.07	*	
PERRY	KB4KIN	52.13	53.13	N	C
SANDY SPR/ATL	WA4MPW	52.09	53.09	*	C

PACKET

ADEL	KF4JF-1	145.01	N	K
ALBANY	W4MM-1	145.09	N	K
AMICACOLA MT	WB4GQX-4	145.09	N	K
ATLANTA/EAST	KE4ZV-1	145.03	*	K
ATLANTA/EAST	KF4JJ-1	145.03	*	K
AUGUSTA	WD4CNV-1	145.01	N	K
CLARKSVILLE	W4EAW-1	145.01	N	K
COHUTTA	W4KAU	145.01	N	K
COHUTTA	W4KAU	145.09	N	K
COLUMBUS	K4ABT-1	145.01	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	N	K
FAIRMONT	AA4EO-1	145.09	N	K
FORSYTH	WB4GQX-2	145.01	N	K
HAMPTON	WA4TXT-1	145.01	N	K
LAGRANGE	WB4BXO-1	145.03	*	K
MACON	K4ICT-2	145.05	*	K
PERRY	K4ICT-1	145.01	*	K
PERRY	KB4KIN-1	145.01	N	K
PERRY	KB4KIN-5	145.05	N	K
PINE MT/HAMILTON	WB4ULJ-1	145.01	*	K
ROBERTA	K4ICT-4	145.01	N	K
ROME	NC4G-1	145.09	N	K
SYCAMORE	WD4LYV	145.01	N	K
SYCAMORE	WD4LYV	145.05	N	K
WARNER ROBINS	K4AGT-1	145.01	N	K
WARNER ROBINS	WL7ACY-2	145.05	*	K
WARNER ROBINS	WL7ACY-1	145.05	N	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	N	K

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WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	N8FWL	144.77	145.37	*	LA
BECKLEY/FLAT TOP	K8BO	146.25	146.85	*	A
BLUEFIELD	W8MOP	144.89	145.49	N	
BOLT/BOLT MT	N8DKL	144.57	145.17	*	L
BRIDGEPORT	K8VNQ	147.72	147.12	*	EAL
BUCHANNON	N8FHE	144.53	145.13	*	
BUCKHANNON	N8FHE	144.81	145.41	*	A
BUCKHANNON	K8WYH	146.25	146.85	N	
BURLINGTON	N8FMD	146.145	146.745	*	
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CHARLESTON	KD8TC	147.81	147.21	N	C
CHARLESTON/HGTN	K8SLI	147.87	147.27	N	A
CLARKSBURG	N8FMD	146.085	146.685	*	
CLARKSBURG	KA8OHX	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
DUNBAR	K8VKI	147.72	147.12	*	EA
FAIRMONT	W8SP	146.30	146.90	N	NB
FLAT TOP/WINTERP	N8BZS	146.025	146.625	*	
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	WB8MZI	146.01	146.61	N	
GRAFTON	K8VNQ	147.975	147.375	*	L
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	N	R
HUNTINGTON	W8VA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	*	L
LEON	WB8NMT	147.78	147.18	N	
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN/BLAIR MT	NU8K	144.63	145.23	*	
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	*	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	N	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	*	LPA
MT STORM	K8VNQ	147.705	147.105	*	L
MULLENS/HRNDN MT	KC8IT	147.63	147.03	*	LARB
NEW MARTINSVILLE	WB8CSW	146.34	146.94	*	
NEW MARTINSVLLE	WB8CSW	147.54	146.94	*	NB
OAK HILL	K8CFT	146.19	146.79	*	EA
PARKERSBURG	WA8CRW	146.37	146.97	*	
PARKERSBURG	W8JZN	147.99	147.39	*	
PARSONS	K8VNQ	144.73	145.33	*	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KC8WL	146.46	147.06	*	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	N	
RAVENSWOOD	WD8JNU	146.10	146.70	N	R
SALT ROCK	WD8MCR	144.51	145.11	N	
SHERRARD	KD8GL	146.115	146.715	N	EAL
SPRUCE KNOB	N8HON	146.055	146.655	*	
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST ALBANS/COAL	KA8SVR	147.75	147.15	N	
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	*	
TERRA ALTA	KD8ZR	147.60	147.00	*	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	WB8JGY	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	N8GOE	144.73	145.33	*	PA

6 METERS

DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB
ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

440 MHZ

BRIDGEPORT	WB8DKM	447.20	442.20	*	
BUCKHANNON	N8FHE	448.10	443.10	*	
HUNTINGTON	KA8QYU	449.50	444.50	N	
LK KNOB/KINSTON	N8FRV	449.80	444.80	*	
LOGAN/WARD RK	WB8FQJ	449.40	444.40	N	P
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	PAL
MULLENS/HRNDN MT	KC8IT	449.00	444.00	*	RB
S. CHARLESTON	WB8CQV	449.95	444.95	N	
ST ALBANS	WD8OZT	449.60	444.60	*	

MORE WEST VIRGINIA REPEATERS

220 MHZ

KINGSTON/LICK KB	W8FG	223.14	224.74	*	
WILLIAMSON	KA8YYW	222.54	224.14	*	

PACKET

HUNTINGTON	KA8EUU-1	145.01	N	K
LOGAN/BLAIR MT	WB8FQJ-1	145.01	N	K
MORGANTOWN	N8BHI-1	145.01	*	K
ST ALBANS	K8SLI-1	145.01	N	
TERRA ALTA	KD8ZR	145.01	*	K
WILLIAMSON	KA8YYW-1	145.01	N	K

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KD4SN	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24	N	PA
ASHLAND	WA8KWH	147.93	147.33	N	A
DEAN	AK4U	144.61	145.21	*	
DOG FORK MT	N4MWA	147.75	147.15	N	
ELKHORN CITY	WB4WAU	147.60	147.00	N	PA
FLAT GAP	KB4NDB	147.69	147.09	*	
GRAYSON	KF4JO	146.10	146.70	N	
GUTHRIE	KA4NNE	146.205	146.805	*	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	N	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	*	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	*	
MT. STERLING	WD4KNE	147.745	147.145	N	
PIKEVILLE	N4IWZ	144.55	145.15	*	
PIKEVILLE	WB4GEL	146.19	146.79	*	PA
PIKEVILLE	N4IXA	146.25	146.85	*	EAL
PIKEVILLE	WB4GEL	147.87	147.27	*	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	LRB
PRESTONSBURG	WB4KUC	146.28	146.88	N	
WINCHESTER	WB4ASZ	147.72	147.12	*	EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72	N	EA
PIKEVILLE	WB4F	222.98	224.58	*	
PIKEVILLE	N4ETG	223.02	224.62	*	A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	*	
GUTHRIE	KA4ZKL	52.23	53.23	*	

10 METERS

ALBANY	W4MM	29.58	29.68	N	L
CONYERS	WB8LVH	29.52	29.62	*	L

PACKET

BEREA	KA4MZY-1	145.01	N	
ELIZABETHTOWN	W4BEJ-1	145.01	N	
ELKHORN CITY	WB4WAU-1	145.01	N	
FRANKFORT	KB4AGA	145.01	N	
GREENSBURG	N4ICS	145.01	N	
HAZARD	K4AVX-1	145.01	N	
LEXINGTON	KF4NB-BBS	145.01	N	
LEXINGTON	W4AUZ-1	145.01	N	
LEXINGTON	WA4JAV-BB	145.01	N	
LOUISA	WA4SWF-1	145.01	N	
LOUISVILLE	W4MOP-1	145.01	N	
PRESTONSBURG	WA4FHK-1	145.01	*	K
WINCHESTER	WB4FDK	145.01	N	

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Full Membership Continues Moving Well

— by Gerry Butts, KB4SEL
Full Membership Chrmn.

Figures in after the first quarter of 1987 indicate that Full Membership continues to do well within the organization. This is especially good since renewals were not mailed out last November as had been in past years. This time, former Full Members had to pull the application out of the Journal which has published an application for the past three issues. They have done this well. We note quite a few new members joining this year.

North Carolina continues to rack up the lead in total repeaters as Full Members, as well as overall percentage of repeaters in the State as Full Members. Virginia and West Virginia are just under the half-way mark with 49% membership.

Last year at this time period, we had an overall 50% membership in, compared to 45% this year, but we have 26 additional repeaters in the 7 states working against our percentages. Last year, not counting Alabama which came in with 63 Full Members in their vie for District Status, we had 489 Full Member repeaters. In 1987 during the same time frame, we have 457.

As you can see, we are behind about 30 repeaters, but things still look good considering the way renewal applications were worked this year.

Then too, lots of repeater owners haven't discovered their membership has run out. The index will show them with an "N" beside their listing this issue. That usually jolts their memory.

Our goal this year is 650 repeaters. With your help we can make it. Check your home repeater's listing. If it has an "N" beside it, talk to the owner and suggest he join CVRA-SERA as a Full Member. If you own a repeater and have never been a Full Member, now is the time to offer a little support to an organization that has supported you for 16 years. It's a fair tradeoff. In addition you get the Repeater Journal for 2 people as Full Members.

Please examine the chart below. It gives you a breakdown by State just how we stand. The "Current 1987" indicates the number of repeaters who are full members thus far in 1987. "State Reptr" column indicates the total count of repeaters overall in the state during this time frame. The "% Total" column, naturally indicates the percentage of all the repeaters in the state which are Full Members.

Let's work to get these figures UP between now and the next Journal in August.

For your convenience, we are again publishing a Full Membership application in this issue.

CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE. CORRECT AS OF 4-10-87 THRU '87 APPL. # 284

	REPEATER							
STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	CURR. 1987	1987 %-TTL	STATE RPTR	1987 APPL#
N.C.	100	83	149	147	117	55%	214	79
S.C.	24	35	56	43	38	46%	82	28
VA.*	58	60	92	88	88	49%	180	48
W.VA.	28	21	41	40	44	49%	89	25
TENN.	47	58	85	63	58	27%	212	37
GA.**	9	18	109	125	90	45%	199	50
E.KY***	1	4	18	21	15	45%	33	14
ALA.****	1	1	4	67	7	--	--	5
FLA.****	--	--	--	4	--	--	--	0
TOTALS	268	280	554	598	457	45%	1009	286.00

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. - T-MARC TERRITORY)
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1987 % OF SERA FULL MBR DOES NOT INCL. ALA & FLA. --ONLY OUR 7 DISTRICTS

BLUEFIELD HAMFEST

MAY 17, 1987

9 A.M. TO 3 P.M-OFFICIAL ARRL HAMFEST
NEW LOCATION

Beside Football Stadium
CITY AUDITORIUM
Stadium Drive
Bluefield WV

GREAT PRIZES:
* KENWOOD TM-2530A 2M TRANS
* SANTEC 2M HT
* HF VERTICAL ANT
* OTHER PRIZES HOURLY

ADMISSION:
* $4.00 AT DOOR
* CHILDREN UNDER 12 FREE

FOR INFO. S.A.S.E. TO:
* BLUEFIELD HAMFEST 87
P.O. BOX 50
MAYBURY WV 24861
* PHONE (304) 248-8888

NEW LOCATION:
* BLUEFIELD AUDITORIUM
* STADIUM DR. (BESIDE STADIUM)

TALKIN:
* 145.49 (B.R.549)

TABLES:
* $5.00 EACH
* LADIES CRAFTS WELCOME
* OUTSIDE TAILGATERS ($2.00) PLUS ADMISSION TICKET

F.C.C. EXAMS:
* BLFD STATE COLLEGE
* WALKIN ($4.35)
COPY OF LICENSE
COMPLETED F.C.C. 610

WEST VIRGINIA NOTES

By Ted Wolfe, WD4KHL

At the end of March my dad, for whom I have been caring the past several years, reached the age of 81. He's been hospitalized three times since January first, twice in March. So the copy deadline for this issue almost slipped by me as March passed so quickly.

I am still appealing for notes from you with news of your club or area. You can always get a message to me via 2-meters in the Kanawha Valley. And there's the U.S. Post Office. My address is PO Box 133, Cabin Creek, WV 25035. If you want to call, the number is (304) 595-3970. And let me know particularly if your organization is doing anything in support of the recent novice enhancement.

• • • •

Wayne tells me there are only about 400 hams in West Virginia who receive the JOURNAL, which is a shame since I consider it the best amateur radio publication. You can't beat the price -- four issues for only six dollars a year. And the articles are of a regional nature. The **Journal** is not loaded down with news of New York, California, etc., but has news from our region.

• • • •

The weather again was good this year for the Feb. 22 hamfest at Fayetteville, WV. The day was bright and sunny, but in February you can still expect the wind to be a bit cool.

• • • •

David Taylor, KA8QYU, 2838 Thornburg Road, Huntington, WV, stopped me at Fayetteville to tell me he handles some old mechanical RTTY parts. So any ham living near him with a replacement problem might want to contact David before going out of state.

• • • •

I've got two different Kleinschmidt models in the basement, an old model 15 Teletype with keyboard and perforator, plus a baudot and an ASCII machine, most of them from Frank, WA8VRS, who cleaned out his shack. I'll soon have to do the same as the machines are doing me no good at this time with the HP rig down and no TU. But one of these days I'll get on line.

• • • •

Wilbur, K8MNA, South Charleston, made his first Charlotte hamfest this year. He accompanied Garry, WD8OMB and Garry's XYL. They say they ran into about a dozen West Virginia hams they knew while roaming about the exhibit hall.

The Jackson County ARC in Ripley still sends me a copy of its "Loud 'n Clear" newsletter. I liked the type style used for the copy in the March 1987 issue. It is all caps with large capital letters in upper shift and small caps in lower shift. That makes a very readable type. Its legibility makes it very good for stencil cutting or for originals for other type reproduction such as for club notices, news releases, newsletters, and especially for making many carbons.

• • • •

Several years ago at the Raleigh hamfest I picked up what I now refer to as my old "telegrapher's mill," a L.C. Smith Corona portable which must be about 50-years old. When copying incoming cw you don't have to worry about shifting as you intermix letters and figures. The only time you use the shift key is to type the symbols on the top line of keys -- the numbers row -- for quotation marks, the dollar, percent and other signs.

• • • •

My San Antonio friend, W.C. Spenn, wrote to way he is working on some more articles for submission to the **Journal**. He also wanted me to know about his new call. He had been KD5AK. W.C. said he's been an extra for years but waited for a 2 x 1 call and finally got one. He is now WR5Q.

W.C. has been attempting to contact Gary Tilton, N4JNE, who authored an article on the May 1985 **Journal** on using a Vic-20 as a repeater controller. He wants more information but Gary doesn't respond to the address we have for him. Perhaps some reader who knows Gary will pass along W.C.'s address. It is W.C. Spann WR5Q, Box 33081, San Antonio, Tx 78265.

• • • •

Two active hams in the Valley departed for other locales at the end of March. Terry Sanner, WD4ALW, left to take up a new job in the Wilmington, NC, area. Larry Schwartz, WA4RHY transferred with Dictaphone from Charleston to Greenville, NC. Both those 4-landers are thus moving back closer to their original homes.

• • • •

A medal for persistence should be given to Ollie Rinehart, KA8TIK, Charleston. In March on his eleventh try he finally passed the code element to achieve his general class license, proving you can master the code eventually no matter how difficult it is personally at the start. Ollie emphasized that he did not blame examiners, acoustics, the site, people or quality of the testing for his difficulties during his many testing sessions. The code was just difficult for him.

Ollie is treasurer of the Kanawha ARC, and his wife, Ann, KA8ZGY, is club secretary.

• • • •

Gerry, WD8SEN, reminded us of the annual PARA election meeting scheduled for 7:00 p.m. on May 8 at the meeting room next to Tudor's Biscuit World just off the Nitro exit of Interstate 64.

And a reminder of the East River ARC Bluefield hamfest set for Sunday, May 17, 9:00 a.m. - 4:00 p.m. at the Bluefield Recreation Center.

• • • •

The West Virginia State Radio Council/ARRL Convention and Hamfest will be held Sat./Sun., July 25-26 at Jackson's Mill. This is a change from previous years when the hamfest used to be the first full weekend of that month.

• • • •

And finally, several days ago I noticed a big fancy sports car on the parking lot at a nearby shopping center. A check of the car's license plate explained all. The plate was I1IT (or "I won it.")

Tennessee Tidbits

— by Tom Park, WD4KWP

A statewide packet council is almost a reality! It may have taken us a little bit longer to get things going here in Tennessee but it seems that we have been able to learn from our neighbors. Let me quote from a report by the packet liason Tim Savage, WA4PTZ.

On March 28th, representatives from the several regional packet groups gathered at the Tenn. Emergency Management Agency in Nashville to discuss the formation of a state packet council. Cooperation and coordination were the main issues of discussion. It was clear to all present that frequency coordination is vital to the growth and success of packet.

I am very pleased to report that I was overwhelmed by the cocperation at the meeting.

One of the goals discussed by the group is the construction of a statewide packet trunk and backup trunk for future traffic. It was agreed by most that a separate PBBS link is needed to handle the amount of transfer that will take place in the near future.

The necessary paperwork for all this has begun. A committee made up of 2 members from each of the various regional bodies has begun work on a constitution for the new state organization.

The next meeting is scheduled for May 23 at 1:00 PM at T.E.M.A.

In further news:

A temporary digipeter has been placed near the Tennessee river between Jackson and Nashville to be used during the reenactment of the Battle of Shiloh. It's call is WA4VVX-2. (Yes, Dave Wolfe is again trying to help keep communications moving in West Tenn. We're always glad to have his help.)

• • • •

Now that Novice Enhancement is here we are having a few new requests for 220 machines in East and Middle Tennessee. If your club has thought about a 220 machine to help attract new hams, this may be the best time to do so. Call or write me, and I'll get the paperwork headed your way!.

NAME BADGES Actual Size

$6.00 Postpaid
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DYNAMIC ENGRAVERS
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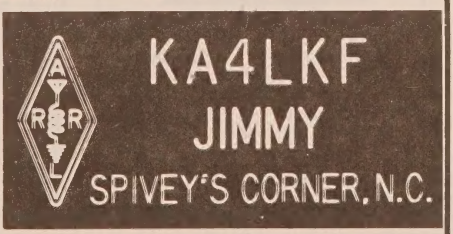

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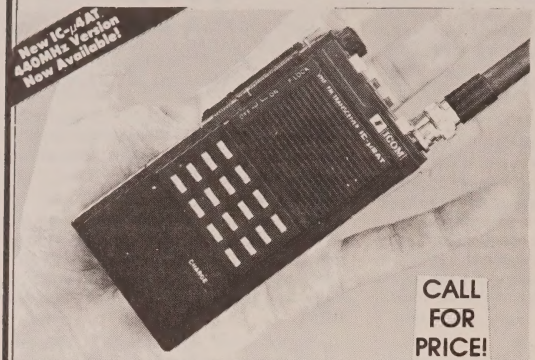

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ONLY ICOM COULD BUILD IT!

A new micro-sized 2-meter handheld with all the performance and reliability you've come to expect from an ICOM!

The IC-μ2AT. A breakthrough that ends every amateur radio operator's quest for that one true, go-anywhere 2-meter handheld.

Miniaturization. The Micro gives you all the advantages and performance of a larger handheld, in a package so small, so refined, so well built that only ICOM could build it.

Measuring only 4.6" high by 2.3" wide, by 1.1" deep, the Micro fits in your pocket or purse as easily as a cassette tape. This miniaturization doesn't compromise ICOM quality. It's exactly what you'd expect from ICOM: high performance in a micro package.

Full Featured. And ICOM hasn't compromised features for size. The IC-μ2AT DTMF version includes ten programmable memories, odd offset capability, an LCD readout on the top

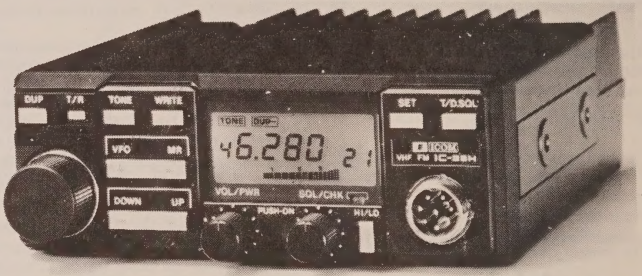
panel for easy readability, up to three watts of output (optional), 32 built-in subaudible tones AND wideband receive coverage from 138 to 162.995MHz in 5kHz steps for MARS/CAP operation and weather broadcasts. There's also a simple to use digital **TouchStep Tuning System** for fast shirt-pocket frequency adjustments. An IC-μ2A version is also available without DTMF and PL tones.

Accessories. The Micro utilizes most existing ICOM handheld accessories plus it hosts a new line of battery packs, long life to alkaline battery cases.

Authorized ICOM Dealer

We now carry a complete Supply of ICOM Radios and Accessories. Call for Information Prices-Availability

ICOM IC-28H



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ON THE ROAD FOR LESS

- **Compact Size**
- **Simple to Operate**
- **Large LCD Readout**
- **25 or 45 Watts**
- **Packet Compatible**
- **21 Memory Channels**

The IC-28H has all the features you need for carefree 2-meter mobile operation. The only thing it doesn't have is a big price.

45 Watts. The IC-28H provides a full 45 watts of powerful output. The **IC-28A** 25-watt version is also available. Both units have a selectable low power.

Large LCD readout. A wide-view LCD readout can be easily read even in bright sunlight. An automatic dimmer circuit reduces the brightness for evening operation.

Wideband Coverage. The IC-28H performs from 138–174MHz (specifications guaranteed from 144.00–148MHz). Ideal for MARS and CAP operation.

Compact Size. The IC-28H measures only 2 inches high by 5½ inches wide by 7¼ inches deep (IC-28A is 5¼ inches deep). Great for mobile installations where space is limited.

ICOM R-7000 RECEIVER 25-1300 Mhz. Coverage

While Present Supply Lasts! $895.00 Includes Shipping

21 Memory Channels. To store your favorite frequencies, 21 memory channels are provided. All memories are backed up with a lithium battery.

Scanning. Scan the entire band or the memory channels from the provided HM-12 mic.

Easy to Operate. With only 12 front panel controls, the IC-28H is simple to operate.

Available Options. IC-HM14 DTMF mic, PS-45 13.8V 8A power supply, UT-29 tone squelch unit, SP-10 external speaker, HM-16 speaker mic and HS-15/HS-15SB flexible mic and PTT switchbox.

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— A Newcomers Special by the Journal

Installing That New Mobile Rig For Maximum Efficiency & Operation

— by Wayne C. Williams, K4MOB

We cry a lot these days when we buy a new mobile rig and suddenly discover, there is nowhere in the car we can put it for convenient operation. It's just life of today!

In the 1960s we had big dashboards and plenty of room to install a neat little 2-meter rig, or HF rig. The problem then, there WERE NO neat little rigs. They were all B-I-G! So the extra dashboard space still wasn't enough to accommodate the room required to install the humongous transmitter and receiver. (That's right there were few transceivers then.)

Another problem we encountered, was massive current drain on the battery. The bulky units were tube driven, and if you planned to run power, you needed special generators (we didn't have alternators then either) on your car, sometimes requiring an extra battery.

Since 2-meters then was not what it is today, rarely was 2-meters ever considered for mobile. So generally it was the HF transceiver or transmitter and receiver, with a big "stick" protruding off the trunk, generally held upright with fishline. The loading coil in the center really made the antennas top heavy.

Mobile Operation Today

Today things are quite different. We have 25 and 45 watt 2-meter mobile rigs that would fit in your overcoat pocket, thanks to transister technology. But today, we still have problems with installing mobile units. Today's cars seem to have lost their dashboard (undersides). There is much cute stuff loaded in cars, such as consoles, gearboxes, humps, and everything else the manufacturer can crowd in the front seat to make sliding from left to right impossible. (I'm sure glad they weren't that way in my younger days of dating, I'd never have been able to get close to my girlfriend in the car!)

Getting Down To Decision Time

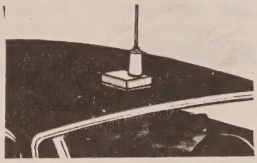
Before buying your new 2-meter rig, consider what you have and are driving. Where can a radio be installed in your car, or van? Where can an antenna be placed? Will the installation be neat, functional, and convenient?

Sometimes, modifications can be made to the car to accommodate your radios. For instance, my new Ford Taurus has a console for gear shift, and just under the dashboard, there was mounted on the console a cute little two-tier storage pocket. This seemed the only area under the dash I could find that radios would go, so I went to the dealer and had them remove the pocket. This left a hole in the console, but when I mount my TWO radios (one under the other) under my dashboard, the hole will be hidden.

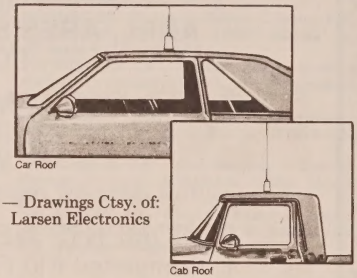
For antenna placement, I chose my favorite, an "L" bracket installation on the trunk. This gives you a relatively permanent mobile antenna mount, but the holes were very small and drilled into the side of the fender well which is hidden by the trunk when it is closed. My 5/8 mobile antennas look quite well. I have 2-meters on the right side of the trunk, and plan to install a mount on the left side to accommodate 220 or 440 (by exchanging coils and whips) whichever I am running at the time.

Other folks have other ideas about antenna installation, and there are several varieties available. Perhaps the most popular of all is the magnetic mount. Let's discuss the various possibilities:

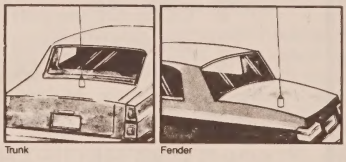
MAGNETIC MOUNT - This is a quick install, quick remove antenna which can be placed on the roof, trunk, or side of the hood, wherever there is metal. Efficience is good, but not as good as a permanently mounted antenna. If you drive at a high speed, meeting a big truck on a 2-lane road can take off your antenna quick! Another dis-advantage is routing the coax. Generally you have to go through a window, or door jam. After a few months, you discover your coax is cut.



PERMANENT MOUNT - This is perhaps the most efficient antenna

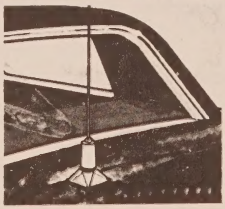


— Drawings Ctsy. of: Larsen Electronics



system you can install on a vehicle. It looks neat, provides maximum ground plane, maximum ground and maximum height, but heaven forbid, it requires drilling a hole in the top of your car, generally 3/8 or 3/4-inch in diameter.

TRUNK LIP MOUNT - Provides a



neat installation on most cars. Ground is good and efficiency is good. Problems - some newer cars have ridges in center of trunk, forcing you to go to one side of center, which messes up the looks of the antenna. Another problem, as the manufacturers have learned to close up

Continued on Page 43

ARRL VA State Convention and Computer Fair

The ARRL Virginia State Convention and 12th Annual Hamfest/Computer Fair will be at Virginia Beach, Va. PAVILION on Saturday and Sunday, Oct. 3 and 4, 1987. This beautiful indoor, air-conditioned facility along with the well-presented show makes this one of the very finest events on the east coast. Don't miss seeing all the latest equipment that will be presented by leading manufacturers. In addition, there will be a full complement of dealers for both Amateur Radio and Computer equipment.

Also featured will be a gigantic Flea Market, a complete two day forum schedule and plenty of programs to entertain the XYL and children. This will still be a great time to spend some time at the nearby beach.

ARRL VEC license upgrade exams will be given Sunday at 9:00 AM. No registration necessary, just bring your original present license and a check for $4.35 payable to ARRL VEC. Show times are 9:00 AM to 5:00 PM. Admission for both days is $5.00 in advance or $6.00 at the door. Advance Ticket drawing, plus many other very valuable door prizes are offered.

For information and tickets, call or write Manny Steiner, K4DOR, 3512 Olympia Lane, Virginia Beach, VA 23452. Telephone 804-340-6105.

ROANOKE VALLEY AMATEUR RADIO CLUB
27th ANNUAL MAYFEST

SOUTHWEST VIRGINIA'S LONGEST RUNNING HAMFEST

DATE: May 24, 1987
HOURS: 9:00 AM - 5:00 PM
LOCATION: Roanoke Civic Center
GRAND PRIZE: Ten-Tec Argosy or TV *(Non-Amateur Prize)*
2nd PRIZE: 2-Meter Handheld
3rd PRIZE: Packet TNC

ADDITIONAL HOURLY PRIZES

ARRL, ARES/SKYWARN MEETINGS AND ADDITIONAL FORUMS TO BE ANNOUNCED

AMATEUR UPGRADE VE TESTS

WHERE: Exhibit Hall, Roanoke Civic Center
WHEN: Hamfest May 24, 1987 at 8:00 AM

Cutoff date for registration is May 11, 1987. No walkin or novice exams.

DOCUMENTS NEEDED:

1. Completed 610 Form (Dated June 84 or Later)
2. Copy of current license or certificate of successful completion of an examination.
3. A check for $4.00 payable to WCARS/VEC.

Mail to: KZ4Y, 4024 Oakland Blvd., Roanoke, Virginia 24012.

PRE-REGISTRATION: $3.50 for Advance Tickets
REGISTRATION: $4.00 at Door
FLEA MARKET: $3.00 Outside
FLEA MARKET: $6.00 Inside *(Includes Table)*
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For Pre-Registration Only—Write To:
Roanoke Valley Amateur Radio Club/205 Wentworth Ave. NE/Roanoke, Va. 24012

**A.R.R.L.
APPROVED
HAMFEST**

VEC EXAMINATIONS

The Repeater Journal will be glad to publish your examination dates in future issues. Please send your examination schedules to the Editor. Deadlines are the same as regular news

TENNESSEE EXAMS

R.A.C.K VE TEAM

For prior registration send: Copy of license, form 610 completed, check for $4.00 payable to WCARS/VEC, SASE. Sent pre-registration to: Ray Adams, N4BAQ, 4325 Felty Drive, Knoxville, Tn. 37918. All tests begin at 10 a.m. at the Tennessee Inst. of Electronics, 3203 Tazwell Pike in Knoxville, Tn. Cutoff dates for exams is day before exams.

Special Exam Dates
March 1 - (Morristown Swapfest)
April 22 - Oak Ridge Hamfest
May 24-25 - Knoxville Hamfest

Regular Exam Dates

June 21	**July 19**
August 16	**November 15**
December 20	

WEST VIRGINIA

FAIRMONT

Amateur exams will be given on the dates listed below at Fairmont, WV. For further information, contact KU8C, Robert Robinson, Rt. 3, Box 302, Fairmont, WV. 26554, phone (304) 366-0132. On the exam dates listed, pre-registration dates are listed in parenthesis.

1987 Examination Schedule

10 FEB (13 Jan)	**11 AUG (14 Jul)**
12 MAY (14 Apr)	**10 NOV (23 Oct)**

E. KENTUCKY

PIKEVILLE

VE Amateur examinations will be held at the East Kentucky Beverage Co., 5-miles north of Pikeville on U.S. Rt. 23. All Exams are walk-in.

Pikeville Schedule

March 7	**September 5**
June 6	**December 5**

GEORGIA

AUGUSTA

ARRL/VEC examinations will be held in Augusta. For information, contact C.L. "Ace" Norton, NA4I, 2704 Lumpkin Rd., Augusta, Ga. 30906. Phone (404) 798-5060. All exams at 9:00 a.m.

Augusta Schedule

March 14	**September 20**
June 13	**December 6**

NORTH CAROLINA

AE4N/MARK 4 VEC
Gbo/Jamestown

FCC exams to be conducted twice a month in 1986, at the GTCC, Davis Hall in Jamestown, N.C. Walk-in--Cost $3.00. Bring original and a copy of license, and some positive I.D. All classes of license exams are given and all testing materials are furnished. Any questions may be directed to Hugh Brunson (919) 852-1087 1900-2000 EST daily.

Davis Hall at GTCC is 6 miles south of Greensboro, N.C. Take Exit 118 off I-85 and follow GTCC signs. Talk-in also available on 146.61 and 145.25 if needed.

VIRGINIA

RICHMOND

ARRL/VEC Amateur Exams at the J. Sargeant Reynolds Community Collge, 1651 East Parham Road. Contact Ron Bolton, WU4G, Rt. 4, Box 455, Glen Allen, Va. 23060. (804) 798-5191. Limited Walkins. Please register if at all possible.

Exams cannot be given unless original license is in hand. Never mail original license with application for pre-registration. Make check for $4.35 payable to ARRL/VEC. Include S.A.S.E.

RICHMOND EXAM SCHEDULE

March 21	**May 23**
July 18	**September 19**
November 21	

SOUTHEASTERN VIRGINIA - ROANOKE

SW Va. Wireless Association at American Red Cross Bldg., Roanoke, Va. Send completed 610 Form, copy of current license and any code credit forms, Check or Money Order for $4.35, payable to ARRL/VEC. DEADLINE for Pre-registration is FEB. 6th. A limit of 10 walk-ins will be accepted, first come-first served. Mail to: Gordon Garrett, Rt. 1, Box 464, Elliston, Va. 24087.

ROANOKE EXAM DATE
March 7, 8 a.m.

SOUTHEASTERN VIRGINIA

Unless otherwise noted, Advance registrations are requested to be received 30 days prior to test date. To register, send completed FCC form 610, with copy of license and check for $4.35 payable to ARRL/VEC. For exams by Hampton Roads Radio Assn., make check payable to them. In all cases include S.A.S.E. For exams with walk-ins, bring original current license.

SOUTHEASTERN SCHEDULE

FEB. 7 - Virginia Beach - Contact Tom Weikel, KA4UNC, 433 W. Farmington Rd., Va. Beach, Va. 23454
MAR. 7 - Hampton Roads - Contact H.E. Boomhower, AA4MB, 1900 Athens Ct., Chesapeake, Va. 23323.
APRIL 4 - Williamsburg - Contact Andrew G. Swanson, WJ4X, 259 Nottingham Rd., Williamsburg, Va. 23185.
MAY 2 - South Peninsula - Contact Sid Evans, N4IIC, 1842 S. Kensington Dr., Hampton 23663, WALK-INS ONLY.
JUNE 6 - Portsmouth - Contact George Parsons, WB4BAB, 4800 Manor Ave., Portsmouth, Va. 23703.
July 11 - Virginia Beach - Contact Tom Weikel, KA4UNC, 433 W. Farmington Rd., Virginia Beach, Va. 23454.
AUGUST 23 - Hampton Roads - Contact H.E. Boomhower, AA4MB, 1900 Athens Ct., Chesapeake, Va. 23323.
SEPTEMBER 19 - Williamsburg - Contact Andrew G. Swanson WJ4X, 259 Nottingham Rd., Williamsburg, Va. 23185.
OCTOBER 4 ARRL Va. State Convention - PAVILION - Virginia Beach. WALK-INS ONLY.
NOVEMBER 14 - Portsmouth - Contact George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, Va. 23703.
DECEMBER 12 - Virginia Beach - Contact Tom Weikel, KA4UNC, 433 W. Farmington Rd., Virginia Beach, Va. 23454.

SOUTHWESTERN VIRGINIA

Three volunteer examiner teams in Southwestern Virginia have joined to offer examinations once a month until further notice. For additional information, contact Dave, NO4H in Council, Va., Ted, N4KSO in Lebanan, Va., or Don, WA4K in Bluefield, Va. All examinations coordinated by W5YI/VEC.

Four locations will share the monthly examinations: (1) Bluefield, WV - Bluefield State College (Code tests with headphones with adjustable volumes) (2) Richlands, Va.-Southwest Va. Community College (3) Grundy, Va. - Buchanan County Vocational School, and (4) Clintwood, Va. - Clinchco Elementary School.

SOUTHWESTERN VIRGINIA SCHEDULE

JANUARY - Grundy
FEBRUARY - Bluefield
MARCH - Richlands
APRIL - Clintwood
MAY - Bluefield
JUNE - Richlands
JULY - Grundy
AUGUST - Bluefield
SEPTEMBER - Richlands
OCTOBER - Clintwood
NOVEMBER - Bluefield
DECEMBER - Richlands

For exact dates and further information you may write or call, Donald L. Williams, Jr., WA4K, 412 Ridgeway Drive, Bluefield, Va. 24605 (703) 326-2411.

NEW RIVER VALLEY AMATEUR HAM FEST AND ELECTRONIC FLEA MARKET

Also Ladies Flea Market

Last Hamfest in Southern Virginia Before Christmas

SUNDAY, AUGUST 16, 1987

9 a.m. til 3 p.m.

NEW RIVER COMMUNITY COLLEGE
U.S. Route 100, Dublin, Va.

- 1st Prize - 2-METER HANDHELD
- 2nd Prize - 2-METER H/T AMPLIFIER
- 3rd Prize - 2-METER MAG. MT. MOBILE ANTENNA

TICKETS $3.00 at Door or From Club Member
Flea Market Tables only $4.00
Dealer Tables only $5.00

DEALERS WELCOME - FREE ELECTRICITY
FOOD AVAILABLE ON THE PREMISES

TALK-IN ON 147.18 + 600

Ham Radio Pilots - Fly In at New River Valley Airport

No N.R.V. club member eligible for prizes.

For more information, tables, or directions contact:

WA4LNT - New River Community College (703) 674-4121 Bob Cecil
N4KEF - Rt. 1, Box 232, Pulaski 980-5746 Clyde Albert
KI4ZE - 24 Gibson Dr., Christiansburg 382-8371 Rick Frisby

Sponsored by the New River Amateur Radio Club Inc.

REPEATER JOURNAL ADVERTISING RATES

Effective 1 January 1987

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue–Dec. 20 MAY Issue–Mar. 20
AUG. Issue–June 20 NOV Issue–Sep. 20

Advertising copy MUST be mailed to: REPEATER JOURNAL ADV. MANAGER, SHARON WARD, 5573 Vienna-Dozier Rd., Pfafftown, N.C. 27040.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: One additional spot color, on available color pages is available for an additional $25.00 charge per ad. FULL COLOR: Is available on the Inside Front and Inside Back covers. 100-130 Line separation negatives, right reading, emulsion down are required. No extra charge for full bleed. Due to Journal width being 1/4-in wider than national magazines, the color will bleed to outer edge, with a color stripe on inner edge of page, if separations do not fill width.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

REPEATER JOURNAL ADVERTISING SIZES AND RATES

Ins. Frt. or Ins. Bk. Cover (Full Color)	8-1/2"x11"	$300.00
Full Page	7-1/8" x 9-7/8"	85.00
Full Page Bleed (any sides)	8-1/2" x 11"	100.00
2/3 Page (Vertical)	4-5/8" x 9-7/8"	65.00
1/2 Page (Horizontal)	7-1/8" x 4-3/4"	48.00
1/2 Page (Vertical)	3-1/2" x 9-7/8"	48.00
1/2 Page (Vertical 2-col)	4-5/8" x 7-1/8"	48.00
1/3 Page (Vertical Only)	2-1/4" x 9-7/8"	35.00
1/4 Page (Vertical Only)	3-1/2" x 4-3/4"	28.00
1/6 Page (Vertical)	2-1/4" x 4-3/4"	18.00
1/6 Page (Horizontal)	4-3/4" x 2-1/4"	18.00
1/12 Page (Vertical Only)	2-1/4" x 2-1/4"	10.00
Business Cards - Standard Size	(4 Issue Contract Only)	16.00

In Advance

Classified Ads (30 Words Maximum per ad) In Advance 3.00
Color (1 additional color plus black) An Size Ad 25.00

Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

Not $300 a page, Not even $200 a page. The Repeater Journal advertising rates and circulation provide you the best dollar value of any Amateur advertising medium in the Southeast. Repeater Journal Advertising PAYS FOR ITSELF! Big circulation National Magazines are Great for results, but do the results pay for the high cost of advertising. Concentrated circulation, low rates, all give the Repeater Journal advertiser the most for his dollar. Call or Write our Advertising Manager today!

Yes! I Want to Support SERA - Sign Me UP for the Journal!

CVRA-SERA ASSOCIATE MEMBERSHIP APPLICATION

Name _____ Call _____
Address _____ Date _____
City _____ Zip _____
Phone (___) _____ Member ARRL ( ) Yes ( ) No
Enclosed is $ _____ for _____ Year(s) Mail Application & Fee To:

NEW _____ RENEW _____ HOT-P _____
$6.00 Year (Maximum 2-Years) $10.50-Max. 1 Year

SERA Associate Membership
Post Office Box 24292
Winston-Salem, N.C. 27114-4292
You Will Receive the Next Journal

RJ 5-87

There Is Strength In Unity!
Unite With SERA
Support YOUR Organization

If Each Of Us Gets One New Associate Member - We Can Double Our Membership. Copy This Application - Give to a Friend - Ask Them to Join SERA.

And Receive The Journal FREE!

Associate Membership - $6.00 for one Year
HOT-P Membership - $10.50 (Your Journal Mailed 1st Class)

DO NOT WRITE ABOVE THIS LINE

CVRA-SouthEastern Repeater Association, Inc.

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR _____

City/Mtn (Max 14 Char)	Callsign	Input Freq.	Output Freq.	
_____	_____	_____	_____	No. 1
_____	_____	_____	_____	No. 2
_____	_____	_____	_____	No. 3
_____	_____	_____	_____	No. 4

Name two Full Member Representatives to CVRA-SERA (ONLY These Two Persons Receive A Journal)

Name _____ Call _____ Name _____ Call _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

Phone: ( ) _____ Phone: ( ) _____

ARRL Member ( ) Yes ( ) No ARRL Member ( ) Yes ( ) No

Membership: New_____ Renewal_____ Fee Enclosed ( ) Yes ( ) No Amount:_____

Repeater Sponsor _____ Date _____

FULL MEMBERS OF 1986 COMPLETE ONLY TOP PORTION - OTHERS FILL OUT APPLICATION COMPLETE.

Date Rptr. Placed in Service: Experimentally _____ Reg. Svc. _____

Was your freq coord? ( ) Yes ( ) No (If No, please explain) _____

ACTUAL REPEATER LOCATION: (Mtn./City)_____

Repeater Coverage: (Cities & Counties)

BASE: _____

MOBILE: _____

Transmitter _____ Receiver _____ Duplexer _____

Antenna _____ Duplexed: ( ) Yes ( ) No Split Site: ( ) Yes ( ) No

Split Site Linkage type _____ (If Radio, Frequency used) _____

Linked with any other repeaters: ( ) Yes ( ) No Linking Freq. _____

Name (if any) other repeaters linked_____

ANTENNA: Height above MSL _____ Height AAT _____ Power (ERP) _____

REPEATER: Open____ Closed____ AUTOPATCH: Open (A)_____ Private (PA)_____ Emerg. (EA)_____

If closed, Access is: Tone Burst_____ Hz, Touchtone_____ Buttons

Repeater I.D. is: CW_____ Voice_____ Rptr. control via: _____

Other information_____

Repeater Membership Fees:
All Memberships Expire Dec. 31

$15.00 annually - Payable Jan. 1
$12.00 after April 1
$8.00 after July 1
$6.00 after October 1

Mail Application & Check To:

SERA REPEATER MEMBERSHIP
POST OFFICE BOX 24292
WINSTON-SALEM, N.C. 27114-4292

Thank you!

If you were a 1986 Full Member, complete only the portion of this form above the dotted line. If you are a new member, or are renewing since 1985, complete the entire form. Use an additional sheet if more space is needed-To avoid delays or mistakes fill out the Full Membership application as applicable to you, as accurately as possible.

"SHENANDOAH VALLEY AMATEUR RADIO CLUB"

37th ANNUAL WINCHESTER HAMFEST

SUNDAY, AUGUST 2ND, CLARKE COUNTY RURITAN FAIRGROUNDS, BERRYVILLE, VA.

Breakfast, Snack Bar, Ruritan's Famous Chicken & Beef Barbeque!

ARRL APPROVED HAMFEST

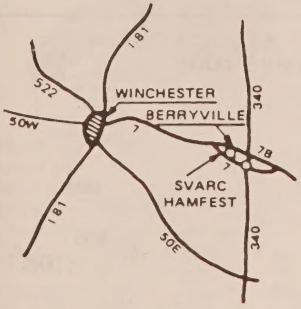
SHENANDOAH VALLEY AMATEUR RADIO CLUB INC.
W4RKC SINCE 1948

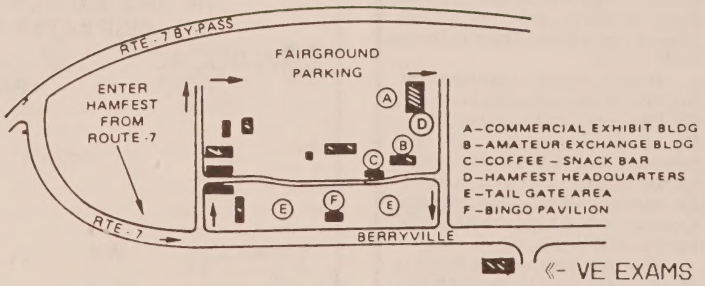
VE EXAMS 9AM

Talk in 146.22-82 & 52 Simplex

Ladies' Bingo, Arts and Crafts (Non-Commercial) GRAND PRIZES and Hourly Drawings with Donations from Major Manufacturers:

3 MAJOR PRIZES





Registration $4.00; XYLs and Children - FREE, Grounds Open 7 AM

Tail-Gaters or Tables Bldg. B (First Come Basis) — $5.00 SET UP BEGINS 6 AM

Tail-Gaters' PRIZE DRAWING

Ham's Lucky Day

— From Columbus ARA Carascope

While driving down the highway operating his 2-meter rig, Dan Large, N8ETV, was pulled over by the Highway Patrol and cited for speeding. It seems that Dan has his cruise control set at 55 mph as he operated 147.24, but was clocked by radar at 68 mph.

After receiving the ticket he explained his unusual circumstances to the trooper. Both parties then agreed to duplicate the incident, this time with the officer traveling next to him. After setting his cruise control at 55 mph, the radar clocked Dan accurately. He then signaled the officer and began transmitting, this time, the radar readout was at 68 mph.

Upon conclusion of the test, the officer voided the ticket and made out a special report.

DAN BRITT 1927-1987

The Amateur community of Georgia and elsewhere was saddened to learn of the sudden death of Daniel C. Britt, K4URK on April 6th. Dan was known across the state for his kindness and friendliness toward his fellow ham and everyone he came in contact with.

Outside Georgia, many Amateurs knew Dan through his business, Britt's Two-Way Communications. He had been in the Amateur radio sales business in Smyrna, Georgia for the past 12 years. He attended many of the area hamfests, large and small.

Dan Britt was born on April 22, 1927. He served for 20 years in the U.S. Air Force during and after World War II. It was then, he met his German-born wife, Thea and married her while still in the service. Thea was by Dan's side at most hamfests, and was always present in the Store. She was Dan's pride and joy.

Dan's main interest in Amateur Radio was operating the HF Pho bands and working DX. He was a member of the Southeastern DX Club, quite active with over 300 countries confirmed. He had an Extra class Amateur License and had been an active ham for about 30 years.

Dan had entered the hospital about a week prior to his death. His death occurred on Monday, with final services on Wednesday, April 8.

A good Amateur Operator, a kind Businessman, and a friend has left us. We shall miss him very much.

— Wayne C. Williams, K4MOB

A Computer Snafu

The official looking letter arrived in the CVRA-SERA Post Office Box in March. David Ward, KA4LVO, who checks our box every week checked the unusual letter. It was addressed to Mrs. Cvra Sera, with the Post Office box number and city.

Intrigued by the envelope, David opened it up and began to read. It was one of those official looking notifications telling you about fabulous gifts you can receive, if you will visit some resort area and listen to a sales pitch.

The letter began:

Dear Mr. and Mrs. Sera:

"This letter constitutes positive official notification that you have been selected to receive at least one gift from Catagory A below. You are not obligated to purchase anything."

"Just meet the simple conditions of eligibility on the reverse, call the free phone number and within five days, claim your gift."

The form then shows 3 catagories of gifts available to Mr. and Mrs. Sera. and finally:

"Urgent Message for Mr. and Mrs. SERA! Make a reservation to claim your gifts by calling our free phone number within 5 days."

Just check out the Gift Certificate Guarantee below.

CVRA-SERA Officers Election End of Year

Officers of CVRA-SERA are finishing their last 2 quarters of their current term. Officers' terms are up every even year, while Directors and Vice Directors are elected every odd year.

Since 1988 is coming, we will be looking at an officer election. Our current slate of officers have all served two consecutive terms and have not indicated whether they would consider a 3rd term or not.

It is time for Full Member repeater representatives to be looking and seeing if they would desire to have any new persons nominated for any of the offices of President, Vice-President, Secretary or Treasurer.

If members feel that our current officers have done the job as required, they might start campaigning with them to urge them to seek re-election.

A committee will be appointed at the August 23rd Board of Directors meeting to seek nominations for the forthcoming election. A ballot will be published in the November Repeater Journal, along with nominees named by the committee. From that special ballot, Full Members in our 7 districts may make nominations "from the floor" if they so choose.

GIFT GUARANTEE 355622

CERTIFICATE

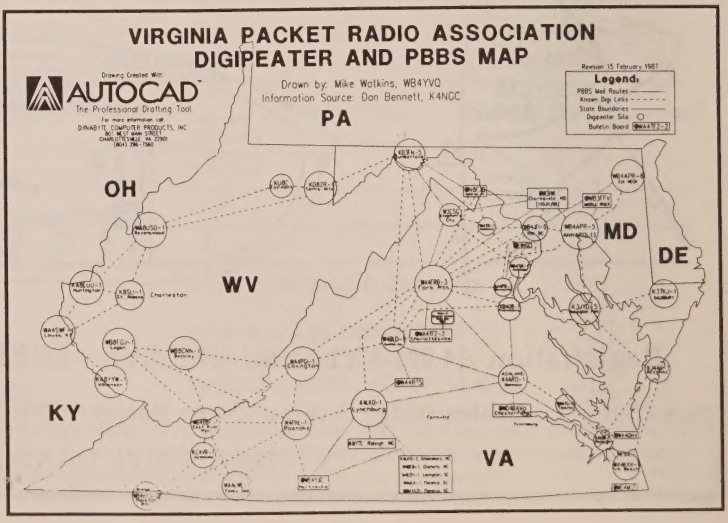
31-01106FU
Mr. and Mrs. Sera
Post Office Box 24292
Winston-Salem, Nc 27114-4292

☐ *One Gift*
☒ *Two Gifts*

CLAIM NO.1: 142481 CAT. A

Void after five (5) days from receipt. CLAIM NO.2: 366758

©MORM 1/87 Bring this certificate with you when you come to claim your gifts. VC-33

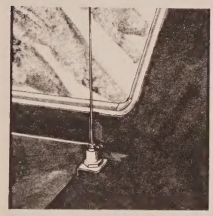


Installing New Mobile Rig

Continued from Page 35

wide cracks on their trunks, there is no room to get the trunk lip bracket under the trunk lid, which allows the trunk to be opened and closed without scraping the back panel of the vehicle.

TRUNK LID MOUNT - This is the official name for an "L" bracket installation, but it is quite confusing. Actually the "L" bracket is bolted to the vertical portion of the fender as it goes

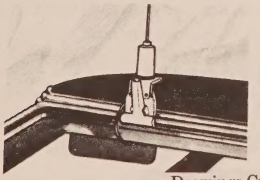


Trunk Closed

Trunk Opened

down beside the trunk lid, allowing the lid to be opened and closed beside the "L" bracket which protrudes a couple of inches over the fender, allowing the antenna to be mounted on the bracket. This system is good ground, good efficiency, but some deteriation will be observed in the opposite direction of the car, due to lack of ground plane on the mounting side, compared to the trunk plan on the other side. It still makes a neat permanent installation.

GUTTER MOUNT - This is a mount with a spring-loaded clip designed to fit your gutter above the window. What gutter you say? Right! Most new cars don't have gutters, and those that do are new shallow-type ones



— Drawings Ctsy. of: Larsen Electronics

which won't work with the clip. I've found they still work well with vans, some trucks, and a few cars. They are a quick neat temporary installation, but like magnet mounts, the coax must be fed through a door or window.

ON GLASS - This antenna has been around for quite a while and works well in most cases. Efficiency is down somewhat since you are trying to couple RF energy through an insulator (glass), but they work and lots of people like them. Be careful installing them. Once you set the sticker mount, its there! Watch out on the back glass if you have a defroster, damage could occur, and in glass broadcast antennas on front glass might receive problems while transmitting on 2-meters and having the FM radio on at the same time. Be sure your radio will like an on-glass antenna mounted on the front. Some new radios have micro-proceser controls, and GaAsFet front-ends and placing an on-glass antenna on the front windshield, too close could cause radio problems. Generally this is the case with a motor home, with antenna on front glass, and radio on top of the dash. Just won't work with some radios.

Choosing Type of Antenna

Quarter Wave or 5/8 is the question! This is a decision you'll have to make, taking several situations into consideration. If you have to drive into one of those new modern carports which have only 6-inches of clearance above the car, a 5/8-wave is definitely out. In fact a 1/4-wave on the roof probably would give you a problem here.

If you live in the flatlands, or away from tall mountains, the 5/8-wave will definitely be to your advantage. The 5/8-wave antenna is designed to lower your angle or RF radiation. (Invision a donut around your antenna as energy being transmitted. Step on the donut and partially flatten it. You have lowered the donut, and flattened it into a larger diameter on the outer edges--Bingo! 5/8-wave) So with a lower angle of radiation, you have gain to reach a little further. A 1/4-wave antenna provides no gain, but strangely enough, we are told it works better in mountainous terrain. The higher angle of radiation helps boost the signal over tall hills to reach your destination better. The 5/8 antenna will die into the side of the mountain quicker.

Installation of Antenna

After you have decided which type to buy, and what type mount to get, installation is relatively easy. Tuning of mobile antennas is generally minimal. Most provide cutting charts which tell you what length to cut the whip for the frequency range you plan to operate. They are quite broad-banded so cutting by the chart will put you in the ball park enough, unless you want to tune further with an SWR bridge. When drilling holes, be sure to get proper size drill bits so your screws will lock properly. If a hole is planned in the roof, we strongly suggest getting a heavy duty hole punch, the size you need. A smooth round hole is essential for proper mounting of a permanent antenna, and proper weather sealing of your roof.

Routing your coax through the car is a job, but if you are patient and do it right, you'll never have to do it again. Always route your coax away from sharp edges in the floorboard. Be sure to have enough coax to reach your radio after it comes from under the floor covering, in fact an extra foot or two would be feasible in case you need to remove your radio, the coax fitting won't have to be taken off until you get the radio out where you can see it. Length of coax in a mobile is not important. Most mobile antennas come with 12 to 14 feet, more than enough. If you desire to cut it, go ahead, no problem. When you install the PL-259 on the coax which is generally always RG-58/U, be extra careful to get the fitting installed so it won't be pulling loose or shorting on you. When you complete the job, take a meter and check to see you haven't made any shorts between center conductor and shield. Measure to see that shield and mount ground show continuity, also measure to see that hot lead (center conductor) and antenna center connector show continuity. This assures you the coax and antenna mount system is working.

For temporary mounts like a magnetic mount, care should be given to where you route the coax. Through a back window, which isn't opened much is desirable. A driver's side door will cut the coax in just a few weeks. Care should be used when placing the magnetic mount on top of the car. Be sure it is dry and clean. Locate place and put magnetic mount down. Never slide the mount for adjustment, most will scratch your car's surface. When removing a magnetic mount, try to pull up one side of the mount and remove, trying not to slide the mount in any way. Most magnetic mount antennas provide as much protection on the mount as possible to eliminate scratching, but removed improperly will scratch your car.

A properly mounted mobile antenna will provide you with the best efficiency you can get with a radio. Improperly mounted, improperly tuned antennas, or bad antennas will diminish the efficiency of transmit and receive on that new radio.

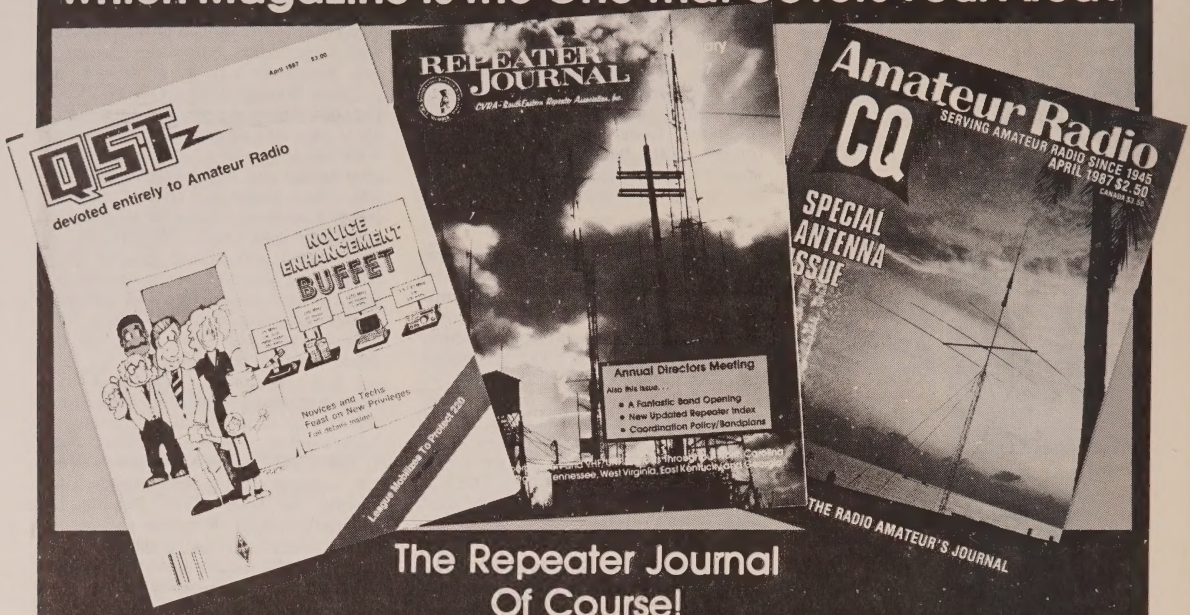
Now the Fun Part

Assuming you have located where you are going to place your radio in the car, it's time to bite the bullet and give that new antenna something to work for.

Under most dash boards in a car, you will find screws used to hold up the under side. Sometimes if you are lucky, you'll find two screws in the proper place, where they can be removed, and your mobile bracket installed using the existing screws and holes. If not, you'll need to drill holes as necessary. It is strongly recommended you place the mobile bracket on your radio, and temporarily move it around under the proposed mounting area to see how it is going to fit. Will the bracket allow you to move the face of the radio where you can easily see it? Once you determine everything will work and where it will go, drill the holes and mount the mobile bracket for the radio.

Continued on Page 47

Which Magazine Is The One That Covers Your Area?



The Repeater Journal Of Course!

The Big National Magazines are Devoted to Covering The Nation. They do just That! If you want to know what's happening in your State, The Repeater Journal is the one to Supplement your Amateur Radio reading Er joyment. The Repeater Journal Covers the SouthEast.

Here's what your local Repeater Journal Has For You:

- Local and area Repeater Happenings
- Complete Updated 7-State Repeater Listings every 3 months.
- The most up-to-date Hamfest and Event Calendar in the Southeast
- Editorials, Features and Stories about Your Neighbors in Ham Radio
- Reports from your Directors about your Neighbor's repeaters
- Packet/Digipeter Listings-Packet News
- Advertising about your LOCAL Dealers and Hamfests/Conventions
- Late Breaking FCC news-written in Language you can understand
- VEC Examinations Schedules in your Area

It's No Wonder that the REPEATER JOURNAL is the Magazine that COVERS the Southeast. If you are not a Member of CVRA-SERA and receiving the REPEATER JOURNAL - You Should Be! Join thousands of your fellow Local Amateurs who "stay in the know" by reading the Repeater Journal EVERY issue - MAY, AUGUST, NOVEMBER and FEBRUARY! If you are already a Member and Subscribe to CVRA—SERA and the Repeater Journal, Do Your Friends a Good Turn. Tell them about the REPEATER JOURNAL and CVRA-SERA. They'll Thank You for it! Your support keeps CVRA-SERA Strong.

Yes! I'm Convinced - Send me the Repeater Journal!

Name _____ Call _____

Address _____ Date _____

City _____ Zip _____

Phone (___)_____ Member ARRL ( ) Yes ( ) No

Enclosed is $ _____ for _____ Year(s)

Mail Appl. & Fee To:

NEW_____ RENEW_____ HOT-P_____

$6.00 Year (Max 2 years) ($10.50 Max. 1 Year)

CVRA-SERA Assoc. Membership
Post Office Box 24292
Winston-Salem, N.C. 27114-4292

WCARS HAMFEST

AUGUST 1 & 2, 1987

SATURDAY & SUNDAY

WNC AGRICULTURAL CENTER

FREE ADMISSION

WCARS INVITES YOU AND YOUR FAMILY TO OUR HAMFEST
Spend Some Time In Our Beautiful Mountains!

• DEALERS • FCC EXAMS • PRIZES • FLEA MARKET

And Much, Much More! !

ALL NEW LOCATION! INDOOR SALES ARENA

FREE! BARBEQUE SUPPER SATURDAY NIGHT!

MANY PRIZES EACH DAY !!

Quality New Equipment Dealers-- All Factory Authorized, With Full Warranties , All Name Brand Equipment..... Also The Finest Used Equipment.... Most With Warranties.

FREE Parking For Cars....Handicapped Accessible 50 RV Hookups....$15/night At The Gate, $10/night Preregister, $5/night WCARS Members.... Thursday Night Free, But Gates Locked After 5 PM (No Way Out)

3 Motels Within 800 Yards.

Indoor Sales Arena With Bleacher Seats, Covered Shed For Additional Sales Area. Paved Area For Tailgaters.

Games & Entertainment For Children Of All Ages.

FREE Barbeque Supper Saturday Night.....

Followed By The 6600 Net At 9 PM On Site Conducted By The Net Controller "Ham Of The Year".....
KA 4 CAC.....Phil.....

Loads Of Enjoyment For The Entire Family.....

SATURDAY AUG. 1

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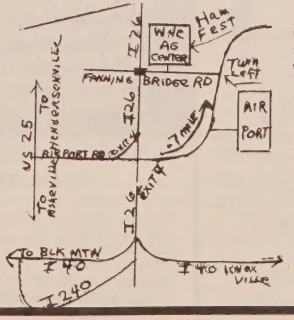

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MAR, JUN, SEP, DEC:	Richlands, VA
APR & OCT:	Clintwood, VA

For info: 703 326-2411 W5YI-VEC

EMERGENCY READY

Clyde L. Weddle, KF4WY, and Robert W. Reed, K4SFI, admire their handiwork as they look at the new emergency power generator, and the trailer they built. The Mecklenburg Amateur Radio Society is ready for any emergency since this power unit can be towed to a disaster site and set up immediately on the spot. — Photo by W4MHF

Joe Edwards, W4EL Dies In Durham, N.C.

Joseph P. Edwards, W4EL, of Durham, N.C. died on April 14th. Joe, 77, was in declining health over the past few months. He was well known throughout the state as a dedicated Amateur operator. He and his son, Sid, W4QWM, traveled far and wide to many hamfests right up to his death.

Joe was born in Philadelphia, Pa. in 1910. He was first licensed as a ham in 1925 with the callsign of 4EL. In the '30s he moved to Greensboro, N.C. and finally made his permanent homeplace in Durham in 1942 where he and his wife Beckey raised their family.

Edwards was a pioneer in the technique of freezing blood at the Duke Medical Center. He formed the Engineers Radio Association and MED-AID, which was an organization that linked Doctors at Duke with missionary doctors in foreign countries to carry out medical procedures via Amateur Radio.

Joe taught engineering at Duke University for 33 years, and retired around 1980. His other talents included watch making and wood crafting. He was a member of the Antique Wireless Association, and past President and member of the Durham FM Association.

Joe turned out many fine hams in the family, inlcuding his wife Becky who died recently. His son Sid, who lived at home, and another son, David in Pittsburgh, Pa. His brother Ralph in Georgia and Brother-in-law in Myrtle Beach were also Amateur Operators. They all communicated regularly on the HF bands.

The loss of Joe, W4EL, will be felt for some time by members of the DFMA, and many other Amateur operators who were fortunate enough to meet him. His mark of friendliness, caring and kindness is upon us all and we grieve with his family at the loss of one of our loved ones.

— Wayne C. Williams, K4MOB

Installing New Mobile Rig

Continued from Page 43

Whenever you can stay away from heat vents or air conditioning vents with your radio, you're in best shape. The radio needs to be installed so that preferably cool air can flow around the heat sink. The little radios blasting out 25 and 45-watts are gonna have a hot heat sink, so ventilation is highly desired.

The only thing left in your installation now is getting power to it. The most recommended way is going straight to the battery. This eliminates RF hash from your electronic ignition system and provides a better line for your radio to operate. Most radios have fusd power cords, but it is also recommended that you come off the battery terminal to the fenderwell of the car and install another fuse, the same amperage rating as that in the existing power cable. A short in the radio will probably blow the existing line fuse, but if your cable broke, got pinched, or shorted AFTER the line fuse, the cable would burn and melt all the way back to the battery. So the extra fuse is just a safeguard to prevent a bad problem if such a thing ever happened to you. It did me one time, and set the dash of my car afire. The re-wiring job cost me $395.00 back in 1970. There are hundreds of rigs out there without the extra fuse off the battery and probably none of them will ever have a problem, but from the experience, I prefer the extra fuse.

Run your cable through the firewall. Generally you'll find rubber grommet covered holes the manufacturer used to run cables into the car from under the hood. You'll find your cable will slip nicely beside their cable, if you use a screwdriver or something like that to make way for fishing the cable through. In hard circumstances, sometimes a piece of hard wire is needed as a fishline to pull the cable through. Suggest going from inside the car to the hood, since connectors are already on your mobile power cable. Then if the open ends of the cable under the hood you have fished through are not long enough to reach the battery, you can solder and tape an extension to them to reach the second fuse block and the battery.

Be careful and observe proper polarity. Most radios have a red and a black wire. The red is positive and goes to the positive (+) terminal of your battery. The positive lead is where you want to insert in series that second fuse block under the hood. The black wire goes to the negative (-) terminal.

Some of the new cars have terminal lugs on the battery making it impossible to get another wire into them. We generally go to an auto parts store and buy a new set of screw down type battery terminals, cut off the existing ones and install the battery cables along with the radio cable into the new terminals, then install them properly on the battery.

When you have your power cable hooked up, if you have a volt meter, you might measure and see that you have battery voltage on the terminals, and the polarity is correct. If no meter, plugging into the radio and turning on will confirm everything works.

Now that your installation is completed, we hope you enjoy that new radio. An installation properly installed with care, and checking all the way will be trouble-free. A jury-rigged installation will always be giving you problems. So plan on an afternoon which you have time to properly install your radio and antenna and you won't regret it.

Next issue: The impossible problem of mobile interference. What can we try?

Coming Events

SERA REPEATER JOURNAL CALENDAR OF EVENTS

MAY 1987

2-3.....48th Annual Hamfest, GREENVILLE, SC
16-17.....Hamfest, BIRMINGHAM, AL
16-17.....ARRL Roanoke Div. LPM Meet, ROANOKE, VA
16-17*.....Hamfest, TOCCOA, GA
17.....Hamfest, BLUEFIELD, WV
23.....DFMA Hamfest, DURHAM, NC
23-24.....Hamfest, KNOXVILLE, TN
24.....Hamfest, ROANOKE, VA

JUNE 1987

5-6-7.....Hamfest, DALLAS, TX
6*.....Hamfest, ROSSVILLE, GA
6*.....John Ross Hamfest, FT. OGLETHROPE, GA
6-7.....Hamfest, ALBANY, GA
7*.....Hamfest, HUMBOLT, TN
7.....Hamfest, MANASSAS, VA
7*.....Hamfest, MUNCIE, IN
21-22.....ARRL Field Day

JULY 1987

10-11-12.....ARRL Nat'l Convention, ATLANTA, GA
18.....Summer Swapfest, CARY, NC
19.....TSRAC Hamfest, WHEELING, WV
25-26.WV State ARRL Convention, JACKSON'S MILL, WV
26.....BRATS Hamfest, W. FRIENDSHIP, MD

AUGUST 1987

1-2.....Hamfest, ASHEVILLE, NC
1-2.....Hamfest, JACKSONVILLE, FL
2.....Winchester Hamfest, BERRYVILLE, VA
8*.....Jax County Hamfest, COTTAGEVILLE, WV
9*.....Hamfest, LEXINGTON, KY
15-16.....Hamfest, HUNTSVILLE, AL
16.....New River Valley Hamfest, DUBLIN, VA
22-23.....Hamfest, MADISON, GA
23*.....Hamfest, GAITHERSBURG, MD
30.....Hamfest.., CEDARS OF LEBANON, TN

SEPTEMBER 1987

5-6.....Hamfest, SHELBY, NC
19-20*.....Hamfest, CINCINNATI, OH
26*.....Hamfest, ANNISTON, AL
27.....Hamfest, Lanierland ARC, GAINSVILLE, GA

OCTOBER 1987

3-4.....VA State ARRL Conv., VIRGINIA BEACH, VA
4.....Hamfest, ROCK HILL, SC
4.....Hamfest, ROME, GA
10-11.....Central GA Hamfest, WARNER ROBBINS, GA
10-11.....Hamfest, MEMPHIS, TN
11*.....3rd Annual Techfest, RICHMOND, VA
11*.....Hamfest, MAYSVILLE, NC
17*.....Tri-Cities Hamfest, GRAY, TN
24-25*.....Central Alabama Hamfest, MONTGOMERY, AL
24-25.....Hamfest, CHATTANOOGA, TN
31-NOV 1.Ham Radio/Comp Expo 87 LAWRENCEVILLE, GA

NOVEMBER 1987

6-7*.....Hamfest, LAS VEGAS, NV
7*.....Hamfest, CONCORD, NC
7-8*.....Hamfest, STONE MT, GA
21-22*.....Hamfest, GREENSBORO, NC
21-22.....Hamfest, W. PALM BEACH, FL

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Advanced Computer Controls (ACC) (CA) 14
American Radio Relay League (CT)/ 19
Business Card/Club-Net Svc Page 46
Bluefield Hamfest (WV) 32
Certified Communications (SC) 12
Computer Trader Magazine (CTM) (AL) 30
CQ Magazine (NY) 17
Dublin-New River Hamfest (VA) 38
Durham Hamfest (NC) 16
Dynamic Engravers (NC) 33
Electronics Equipment Bank (EEB) (VA) 10
ENCOMM, INC. (TX) ..... Ins. Ft. Cover
F & M Electronics (NC) 34
H.L. Heaster, Inc. (WV) 6
Manassas Hamfest (VA) 8
MarVista Motel (SC) 9
Repeater Journal Advertising Rates 39
Roanoke Hamfest (VA) 36
Va. State ARRL Conv./Hamfest (VA) 4-5
WCARS-Asheville Hamfest (NC) 45
West Antenna Service (NC) 18
Winchester/Berryville Hamfest (VA) 41
Williams Radio Sales (NC) 13, 31
YAESU, Inc. (CA) ..... Ins. Bk. Cover

- Meeting Theme "Clubs & Training"

Roanoke Division LPM
May 16-17, Roanoke, Va.

The Roanoke Division League Planning Meeting will be held in Roanoke, Virginia beginning at 1 PM Saturday May 16, 1987 through noon Sunday May 17, 1987.

Special guest this year from the ARRL is Steve Place, WB1EYI. Steve is Volunteer Resources Manager with the League and should have some interesting talks dealing with clubs and training.

Location this year is the Salem Quality Inn (formerly the Sheraton Inn) at the junction of I-81 and 419 - Exit 41 - just south of Roanoke.

Registration for both days of the meeting is $5.00 and the Saturday night buffet with your elected and appointed League officials and fellow hams is $13.00. Please make meeting registration and buffet checks payable to Ronnie Bratton-RVARC and mail c/o Roanoke Valley Amateur Radio Club, P.O. Box 2002, Roanoke, VA 24009.

The Salem Quality Inn has made special rates available for the League Planning Meeting. These are $42.00 singles and $47.00 doubles. Reservations can be made at (703) 563-9711 or (800) 228-5151. Additional hotels in the vicinity include the Salem Holiday Inn (703) 389-7061, the Airport Holiday Inn (703) 366-8861, Embassy Motor Lodge (703) 986-0455, Airport Thrifty Inn (703) 563-2871, Econo Lodge (703) 986-1000, and the Starlite Motor Court (703) 366-3403. These are all within 5 miles of the meeting. It is recommended you make reservations direct.

Please make your plans to attend the 1987 Roanoke Division League Planning Meeting. This is your opportunity to give input and direction to the ARRL and its activities for the next year. And if you are a club officer, this is a good chance to get some good pointers on club activities and training. Be sure and attend - its your organization.

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